

cggcagcaat atagctcaat acattacatg ttattttaaac ccttatacct aaaacaccac 60  
 cagcaactta ctacaccaaa tccttgcaat ttttttccct atctgcctaa tagcaagggt 120  
 ctcttacatc ccacataaac ctccaaaaca aacgaaacct aacaataaaa attaaaaaaa 180  
 agaaaaaaaa acaaactagc ctccaaatcc ggagaggggt cttccttgtc tcttgagagc 240  
 ataaaccaca tccattgccg taacgggtctt tctcctagcg tgctcagtgt aggtaacggc 300  
 gtcacgaatc acgtttctcca gaaagatctt gagcacgcca cgtgtctcct cgtagatgag 360  
 accactgata cgcttcacac caccctgcg agccaaacgc cgaatcgag gcttggatgat 420  
 tcctgaatg ttatcgcgca acaccttagc 450

<210> 13039  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13039

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 tctacaagt gttgttcttg gggatcatgc atgaattggc ttaccacact cacagcataa 180  
 gcagtgtctg gtctactatg ggacaagtag atgaactttc ccaçtggtgt ctggtactgt 240  
 gacttctcta ctgttggcct taatccccac ttccaatctt gtggttctgc tcaatgggaa 300  
 cattgaatgt ttacaccct tatttgcttg tttcctntgag aagatcaaag taaaactttc 360  
 tttgggtgat aaaggtacct tgtttggaat 390

<210> 13040  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <400> 13040

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 ttacctata accaatgtcg gttatcataa aacaacatcg gtttataaca aaaattgatg 120  
 ttgttggctg actactaaca tcagttttgt taaaaaccga tgtaatatata cagatacaac 180

atcggttggt ctgaaaaccg atgttgatat atgaagatat ataacatttc tataataatt 240  
attgctatac acattgggttc tgtgaaaaac cgatgttaac ggtattactt tcaacatcgg 300  
ttaataaatg atgttgaaag tccttaataa ccgatgttaa aaccctattt ttagtagtg 360  
atgtcaacga tagtcctag 379

<210> 13041  
<211> 450  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13041

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cacaatagaa tgatgatttt gctgaattaa agtgtgtgaa aaacatttta caatgaaatt 120  
aagactttat tgtaaaatat ataattaaat caatttcggt gttttgtttt tttcatcttc 180  
actaatatgc tggaattgtg attatatatt acatcttggt ttgtgaaaaa agtaaagaat 240  
agaattacta ttacattata taaggggact aaatataaca tgtacaatag aaatacaatt 300  
ttgttgtaaca atgtacaaca aaattatatt tttattgtgc atgttttttt agcaaaaaaa 360  
tatataaatt nttcactaaa taaaattgag attatctggt atacaataga atcttgattt 420  
attgattact gaaacccaaa aaaaaaaaaa 450

<210> 13042  
<211> 390  
<212> DNA  
<213> Glycine max  
<400> 13042

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aatatgtacc tgtcgcaagg gtttgtgggt tgtgctcctc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagagc aattatgacc 240  
tctccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tgggtccagcc 300  
cttagcaaca acaacagcag cctgctcctt cctttcaaaa tgctgctggc ccaaacagac 360  
catacattcc tccaccaatc caacaacagc 390

<210> 13043  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 13043

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 taatgtaacg acctgcctca tcgctacaat atcaccattc taaatcgcgga tcatttcaaa 120  
 ttttaaataga aaaatccatt aattttctta tataaaaaaa tgaaagtaat ttttgtcttg 180  
 acatacattc accaaacaac acacattact tttcttatat aaaaaaatga aagtaatttt 240  
 tgtcttgaca tacattcacc aaacaacaca cattaactta gtggatacgt atatattagt 300  
 atagtaactt agtacacatc attcacataa tggaaataaa cttgtttatac atataattaa 360  
 atatgtgatt acatctttat tcaacaaaga atatgaacca ctatggggag tgataac 417

<210> 13044  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13044

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 gtgtacttta cttttatgct ttacttttgt ttaagttaca taacttagta gtaaagccta 180  
 attgaatcta gtaacattaa gaaggatcag ttttaattag tcaaggttac ttaataatta 240  
 attcaacccc cctattctca attactccaa ggccacttga tccaacacat tgtaccctga 300  
 gcaactgccca gntaggtctt ctctcttttc tttcttttcc ttaagagttg aatgaatcca 360  
 tgtacccttt atgggcctct ctgatattat gtatggattc atct 404

<210> 13045  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13045

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aagatagcat gagaggaagt gatagcagag aagatgaaag tggatgaatag gaagaagaat 120  
ggttagaaga tgttgataat ttaatgaatg atgatgggtt tgatgacatt gatgatgggtg 180  
atgactggag tgatgaagaa gatgatgatt tgccgccaga ttttgatgag gatgctgaac 240  
ttttggagat ggggcaagga aagactatta aacaagactc gagacagaat gatgaaatgg 300  
tccttcttcc tgtactccct gatggtcgtc caagagaaca atggatgatct tcacaaaaga 360  
aagcatctgg cttcatatatt gatattgtac tggctgattt gtggatgtgc tttt 414

<210> 13046  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 13046

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cacttctggc actacattgc tgggagtttg aagccatctt ctcaattaaa tttctggctc 120  
cagcaggggt catgtgtcct aaggctccac cactggcagc atctatcata cttctatcca 180  
tgctgctgag tccttcataa aaatattgga gaaaaagctg ctctgacatc tgggtggtgag 240  
ggcaactggc acataattga ttaaattctc cccaacattc atataggcgc tatccactga 300  
gttgactaat accggaata tccttataga tggctgaggt cctggaagca gggaaaatgt 360  
tgtctaagaa tactgtcttg 380

<210> 13047  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13047

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aatgtatgta tacatgattt tgatgatgtc aaagaagaat ctaacaaggc tgcttcaa 120  
gataagtatt tgcttcaaga ataattcaag attgcttcaa caaacaagc cttgtttcaa 180  
gattcactaa agaccaagcc ttgccttaaa acaaagtgtc ttcaagacat gcaaggctct 240



ggtaatcgat taccaggaag tgtaatcgat taccagaaga caggggtgag aaatagctgt 300  
 tgaaaaatgt tttgaatttg aattttcaac atgtaatcga ttaccatattg tctgtaatcg 360  
 attaccagca atggaacttt ggaaattcaa attcaaaagt cataaccttt canattataa 420  
 ctgtgaaatt gattacacaa acattgtaat cga 453

<210> 13048  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 13048

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 gaagactcct ttatcttacc actacaaggc tagatataac ttttgactg aatcaactta 120  
 gtcaattcct atctgctcag attgtcatca agcagctgct cacagagtac ttcgctatat 180  
 caaaggctca cttgcatgtg gccttttcta cccagcatca aacgctcaca agctcacagc 240  
 ctacaatgac tctaacttgg ccagttgcat tgattttaga aaatccatta ctggatattg 300  
 tttatacatt ggtcttttat cttaccacta caaggctaga tataacttgt gcactgaatc 360  
 aacttagtca attcctatct gctcagattg tcatcaagca gtttctcaca gagtacttgc 420  
 ctatatcaaa g 431

<210> 13049  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13049

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 cacacttttt cctagtcgat cactcacata aatttccatt ctccccctta gtttttgaat 120  
 ttatgcttct cttaaaatta agttgattac tcatgtgagt tcttgattta atccctattt 180  
 ctctccccct ttggcatcaa caaaaagcca aagtgtgtaa caagtttaaa gcatacaaat 240  
 acaaataagc atccatacaa cattcatgga aatatataac caaaccatga atagatcaaa 300  
 tatataaaaa tcacatagtc aaataacata attaataattt gttcaaacat accaagcaaa 360  
 taaagaaata gtanattggg caaatatcat aataatataa attatttggg taagtcacta 420

acatctagta gtccta

438

<210> 13050  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 13050

tatagaatat ataataagag aactatgatt attggtgaat ctattcatgt ttcctttgat 60  
gagtctaata ctattcctcc aagaaaggat attctagata atattgcata atcttttagaa 120  
caaatgcata tttatggaca agattctaaa ggaaaagga aaggaagcaa taaagatcct 180  
ccaaaagaag ccaaatacaa ttatgaactt ccaagagaat ggaaagcttc aagagatcat 240  
ccccttgaca acattattgg tgatatctcc aaaggggtaa caactagaca ttatcttaaa 300  
gatttatgca ataatatggc ttttgtgtct atgattgaac cttaaaattt aaataaagcc 360  
ataatagacg atcattgcat agttgctatg caagaagaac taaatcagtt tgagagaaac 420  
aatgtgtggg aactagta 438

<210> 13051  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 13051

agcttataaa gaaaaatgat ggcttggttt taaccaatc acattatggt gataagctat 60  
tgaagaagtt taattatctt gatgtaaaac ctatttctac ttcttatgac tcatccatta 120  
agttaaagaa aaaattgaat aaaggaattt cttcacataa atattctcaa attattggtt 180  
ctttgttgca tttgacaaac ttctctacgc ctaacattgc atatgaaatt ggtagattag 240  
gaagggtatac taataatcat gatcattctc attggattgc attagaaaga gtttttagat 300  
acttaaaacg aaccattaat tatgacattc attatacatg ttttcgtgca gtaattgacg 360  
gggttagtga tgcaaatacg atttcttgat ctaatgaaac 400

<210> 13052  
<211> 358  
<212> DNA  
<213> Glycine max

<223>        unsure at all n locations  
<400>        13052

tcaacatcag accacttccg ggtgctggaa ctacttctta tggattngat ggagcctatg    60  
ctaggtgaaa gccttgagg aaagaggtat gcctatgttg ttgtggatga tttctccaga    120  
tttacctgtg tcaacttcat cagagagaaa tcagaaacct ttgaagcatt caaagaattg    180  
agtctaagac ttcaaagaga aaaggactgt gtcataaga gaatcaggag tgaccatggc    240  
agagaatttg aaaacagcag gttcactgaa ttctgcacat ctgaaggcat cactcatgag    300  
ttctctgcag ccattacacc acaacagaat ggcatagttg aaaggaaaaa caggactt    358

<210>        13053  
<211>        433  
<212>        DNA  
<213>        Glycine max

<400>        13053

ctcaagcttg ccattctcca ttagaaatgg aacatatagc atagctgtgc tacttttgct    60  
cttaaatttt gatgagactc tatcagggga aaagagaaag ttgcaactgt tggagctgat    120  
agagatgagg atgaatactt atgagtcttc gagattgtac aaagaaaaag tgaaggcttg    180  
tcatgaccag aagctgatat agaaagatta tatgccaaac caacaggctg tgctattcaa    240  
ctcatgattg aagctatttg caggcaagtt aaagtctaaa tggctctggac cattcaccat    300  
caaggatgtc acgccttatg gagcagtgga attatttgac ccttactcag aggctctgaa    360  
tataagatgg atagtgaatg gccagatatt gaagctatac cactgtgtga acattgagaa    420  
attgatcacc att  
433

<210>        13054  
<211>        355  
<212>        DNA  
<213>        Glycine max

<400>        13054

ctagagctcg caaaagagac gccagacgaa ccttattctc tgatctggag ctcatgtctc    60  
acctcttgaa ggaattatgg ggactcggaa accgcagacg aagtctccaa aaagttatta    120  
tagttggaac ctcataaagc agacaatcat gtattgctgt caaacttgta tgctggatta    180

ggaaaacggg atgaggtgag aaaggtacgg cccagaatga aagagaatgg ccttcataaa 240  
 gatgcacgct gctggaggat tgaaatagga cgaatggctt ataaatatct tgctagagac 300  
 ggatcacttt cagaatcaaa aaagattcac cagacctgga ctttaattgga gaaaa 355

<210> 13055  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13055

agctantcac catgttgaaa atgtgttcta ttatttctct ctgagacacc attgtgatgt 60  
 ggtgcatatg cagtagtaag ctctcttcta atgccatgtt ctgcacaaaa aatttcaaatt 120  
 tctttggagc aatattcatc acctcgatct gtgcgaagag tctttataga cttttctgct 180  
 tcattttcaa cacttgcttt gaagctctta aatgtacaaa acgcttctga tttttcctgt 240  
 ataaaataac cccacttgt tcttgaaaaa tcatcaatga agcaaattaa ctatcttcta 300  
 cctccattag aatatgggtt tattgcacca caaatattag aatgcaccaa atccaagaca 360  
 tcgtttgcct ctcatgactt ctctttggga aattgagatc gat 403

<210> 13056  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13056

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 atacatatga ttctttcatg cagcatgatg ttcaagaact aaatcgggtt ctctgtgaaa 120  
 aacttgaaga caaaatgaag gtatggcaag agatttggaa tgtttggtca tgattcttct 180  
 tgatgagtga tcataccaaa tgggtgttgt atgttatttt tcttcaggaa actgttggtg 240  
 agggaactat acaaaagtta tttgaaggac accatatgaa ttacattgaa tgcacaaatg 300  
 tagactacaa atcaactaga aaggagtcna tttatggtac ttccttatng catttgaatt 360  
 caattatatg tttagtctct ctttggtatg taattctaatt ttagtntttg catatgcatg 420  
 ttagatcttc a 431

<210> 13057  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 13057

agctagaaaa caagatgttg agagtgtttt acagttatca caagctcatt ttgaagtccc 60  
 ctctttcaaa aaatagaaca tttaaaattg agattgatgt gatagaacag aagtgtttta 120  
 ctactacagt aaacagtgaa gagcggttat ggcattacag atttggccat ttaaatttta 180  
 gagatctgat taagctaaac tcaagagaaa tgggtgttggg ttgcctcag atcaagcctc 240  
 ctagtgaagt atgtgatggt ttgttacaat gtacgcaatc 280

<210> 13058  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13058

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 caaactacat gcaagagata agaatgaaaa atagaaaagg gaaagaaaag atggggttgc 120  
 ttccagtaag cgctctttta acgtcactag cttgacgcat catcctatta tctaggatca 180  
 aagcgtagaa cagtgttcaa tctttccata gtcaccacat gatattcctt caacctttgt 240  
 ctgtttcacta cccatgtcct gtcaggatct ttagattgag gatcaciaag ctccactact 300  
 ccatatggtc ggactttctt gatggtaa at ggtctagacc actttgattt tatctttcca 360  
 gggaacaatt taagtcttga gttgaaaaga aacacctgtt gtcctggctg gatgtccttc 420  
 ttgagncaaa ttttgtcatg atactttt 448

<210> 13059  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13059

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ggtgtgctta gctcagtctc atcagaatga cactcatgct tagcgcacag ggctgttaga 120  
 caaatgacct cagttatctt aagaaggggg ggttgaatta agatacaaag actattccct 180  
 aattaaaatt tcaactcttc tttttgggtt aacaatgcac ccttaacatg aattactcaa 240  
 aagataattc aaaataaact tcttcaaagc aaaagataaa tagcaataaa taaaagaagt 300  
 ttaagggaag agagaaatgc aaacttgatt tatactgggtt cagccacttt ccgtgactac 360  
 gtcc 364

<210> 13060  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 13060

tgccgcaaca tctgaattcg atgtatggaa aatccccgtt cgggtgtgagt tggaacatgg 60  
 acgctagagt ggcaagggca tcaaccacct gattctcttc tctaggaatg tgatgaaagg 120  
 atatgtcatc gaagaattct atcaactttc tgatgtaggc ctgataaggt atcaacttat 180  
 gateccctagt ctcccattct cctctcaact agtggattac acgggctgag tccccatata 240  
 ccttgagcaa cttgatcttg aagtcaattg ccgcttggtt cccaagggcg cacacctcgt 300  
 agttagctat gtttttggtg cagtcaaaac ccaacctagc tatgaaagat atatattgct 360  
 cgtcggggga aaccaaatac gccccaaagtc catggcctag tgcattagat gcgtcgtcaa 420  
 accatataat ccatttgtcc ctatcttca 449

<210> 13061  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 13061

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 gcagagcaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccata 120  
 tcttagatgg tccaaccctc agcaacaaca acaacagctt gctccttctt ttctaaatgc 180  
 tgctggccca agcagaccat acattctctc accaatccaa caacagcaac aaccccagaa 240  
 acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300

tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taaaccaatc 360  
agatgggac 369

<210> 13062  
<211> 279  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13062

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gctatacgag acatcttgcc aaacaaagtc acgttcacca taactcgcgt gtgctttttc 120  
ttccatgcta taagtagcaa agcgattgat ccagtaatgt ctgatgagat ggaaaatgag 180  
gccgtaatta tactgcgcca gttggagatg tattttcccc tgctttctat gacatcatga 240  
ttcacttgaa tgcgcatctg gtcagagaaa tcaaagtct 279

<210> 13063  
<211> 454  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13063

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cacttctggc actaaattgc tgggagtttg aagccatctt ctcaattaaa tatctggctt 120  
cagcaggggt catgtctcct agggctccac cactggcagc atctatcata cttctctcca 180  
tggtgctgag cccttcataa aaatattgga gaaaaagctg ctctgaaatc tgggtggtgag 240  
ggcaactggc acataatfff ttaaatctct cccagtattc atataggctc tctccactga 300  
gttgtcta atctgaaata tcctttttga tggctcgtgt cctggaagca tggaaaatgt 360  
tntttaagaa tactctcttg tggctatccc aactcgtgat ggaccttata gcaaggtaat 420  
atagccagtc ctttgccact ccttgtaaag aatg 454

<210> 13064  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 13064

agcttcaaga ataatggcct catcaaacta tttattttct gaagggaatt caataaatag 60  
gcctcctatt ttcaatggag tgggttacca ttactggaaa acccgatgc aaatttttat 120  
agaggcaata tattttaaag tttgggatgc aatagaagta gggccctata ttcccactat 180  
ggtggcagga agtaaaacca tagaaaagcc tatggaagaa tggagtgaag aagaaaagag 240  
attagtgcaa tacaacctaa aagccaaaag tataattaca tctgccttag gaatggatga 300  
gtacttttagg gtatcaaatt gtaaaagtgc aaaagaaatg tgggataccc tacaagtaac 360  
acgtgagggc acataagatg tgaaaaggtc caggatacat acattaactc atgag 415

<210> 13065

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13065

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agcaatacat attcaagtga tttttggggc aagtgggtccc cttgtattta tcaaaatctg 120  
gtaccttgaa ctttggaggg atgacaacat cagctaccaa acacaattct atcatgtcgg 180  
tgaaagggtg accaccaaac cctttgacaa ctattaatct ctctccaatg aaatcaagtt 240  
tctctcttcc ttccattgcc ggaggcggcc ccctactga gaaatgcagc agttgcagag 300  
ggcgggtgta aggagctccc aagggtattgg gttgaggcat agcattaaat gccagtcctc 360  
tancagtga cgtgggatat ggggt 384

<210> 13066

<211> 337

<212> DNA

<213> Glycine max

<400> 13066

agctaaacaa aaggcatgcg aagtgagtgt aatttctaga gaaattccct tatgttatca 60  
aacatacaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
tttctatgct tgaacaaaaa ttgattggtc ttgaaagttt gaaaagcatg tatgaaaatg 180  
atcaaacttt tggagaaatt tttaaaaatt gtgaaatttt ttcagaaaat ggtttcttta 240



gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctacaagaa 300  
 atttgcttgt ttgtgaagca catgaaggag gttaaat 337

<210> 13067  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 13067

tcaacattca atttcgagcg tctcgatata tgacgggact cattcagaca tccgagtaaa 60  
 aagttattgt cgtttgaatt tgctcagagc atcaacattc aatttcgagc gtctcgatat 120  
 attacgggac tcaatcaaac atccgagtaa aaagttattg tcgtttgaat ttgcatagag 180  
 ggtcaacatt caatttcgag cgtctcgtaa tattacggga ctcaatcaga catccgagta 240  
 aaaagatatt gtcgtttgaa ttggctgaga gtcaccaat tcaatttcga gcgtctcgat 300  
 atatgacggg actcaatcag acatccgagt aaaaagatat tgctgtttga ataggctgag 360  
 agcttcaaca ttcaatttcg agcgtctcga tata 394

<210> 13068  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13068

ctttatgac tgtgtgcaca ataaattctc tgcccaatat ataatgtctc cagtgtctgaa 60  
 taaaaagcac aaggggccatc aattccttct catagacaga ttttgccaga ttcccattag 120  
 ataaagcttt actgaagaaa gcaatagggt gtctctgctg cattagaaca acacctatac 180  
 ctctaccagc cgcacacac tcaacttcaa aaggtaaadc aaaatttgga agaattagca 240  
 cagggggaga agtcatgac ctcttcatct cctcaaaggc cttgacagct tctattcccc 300  
 aagaaanatt gtctttctta gtcaattcgg tgagaggggt tgctatttta ccataatccc 360  
 tgataaactt tctataata 379

<210> 13069  
 <211> 436  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13069

tcgacgaggt actgaggaat gcttggatgt ttcttgcta cggttacttc atagggagtg 60  
agccctattg ctaagtgaac ggatgtgtta tacgaccact ctgcccacac gaggaacttg 120  
ccccatgatg aaggtcgttg atgaatgaag gacctgaggt attgttagat gacctgttc 180  
agtacttcgg tctgtccgtc cgattggggg tgatacgtg agctcatgcg gagcttcgtg 240  
cctgaaagtc taaataactc ttgcaaaaa caacttacga ataagggatc atgggtccaat 300  
accaaactgt gtggcatgcc atggattttc cccacgatat ccataaagag gtgtgctacg 360  
gtggaagcta tgtatttga ttgaagcatg tcgaagtga cccctctnga aaaatggtca 420  
acaaccacca agatga 436

<210> 13070

<211> 336

<212> DNA

<213> Glycine max

<400> 13070

agctatattt ggcttccaag atttaatcta cattgtgaga atggggtata agtactaaga 60  
gacaatgctc ctgatgcaca aaaggctaga ttcaaagaat taaagaagca ggattgcaaa 120  
gcattgggtga ttcttcatca gtgtgttgat gataccact ttgagaagat cgcagggtgca 180  
aatattgcga aagaagcctg tgacacgttg aacaaagctt atgctggtgc agataaagtc 240  
aagaaagtgc gcttacaaac cctgaagaga cagtttgaac tgttgcagat ggaagagagt 300  
gaacgtatta gagatttctt cggtagatta caagtt 336

<210> 13071

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13071

cgctaacca tggaagctcc taatatatcc cacactntnn tgggtgggcc attcttggat 60  
agccttgatt ttctcagggt ccacttggn cccatttta ccaactacaa accctaagaa 120

aactatatta tctacacaaa aggtacactt ctctatattt gcgtagaggg tgttttct 180  
aaggactaaa agaactagcc tgagatgtcc taagtgatca tctaggctcc tactgtacac 240  
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
cataagcctc ataaaggtgc ttggtgtatt agtgagccca anagcatcac taaccatcat 360  
agaaactaaa c 371

<210> 13072  
<211> 486  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13072

tgagttcgat ggcncaatg acatctattc cccacatgga ataaggccaa ggggcggaca 60  
taacattcat aggatgtggt ggaacattga cattgtccgc gtatgcctga catttatgac 120  
atttccttac atgggcacaa ctatcgcttt ccatagtaag ccagtaataa ccgactctaa 180  
ggatcttctt ggccatagca tgcccattgg catgtgtccc acatgaaccc acgtggattt 240  
cctcaatcat gaagttcgcc tctttggcat ctacgcatcg taggagggtc atgtcgtggt 300  
ttcgtttgta caggatggta ccactcacia agaaaccagt agccaatctc cttaacgttc 360  
ttttgtcatt gtcagaaatc cccggtggat attcctttgtt ctcaacatat tgtttgatgt 420  
cgaagtacca tggtttccca tcccactcct cctctatcac acaataatgt gctggctggc 480  
cttgag 486

<210> 13073  
<211> 454  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13073

tggcttgcag atctagtgtg gaagaaatgt aaccggggga gtttttgatg gcttcaagtt 60  
cattatgtga caaatttgca ctataaccat tcatgacgtt ggtgtatgta taaatcagct 120  
tagaggaagc agtgttgaga atattatcat tggttgtaac atgagtattt tctagtgcag 180  
aagaaagggt tgacagatac caattgtgtt tgggtggagaa tagtttgggc atggatgatg 240

agtcacatgtg gatgatataa ttctcagatt gagccattct ggagacaagg tgatggacta 300  
 tgatggagaa gcaaagacat agacgaatca tggtagccat gatttgatga atgttatatc 360  
 caatgtggac tgctaattgg ctntatcaga caccaatata taactgggtg ttaaatagtg 420  
 gataactact gaatgggaaa tgataatcgg aaca 454

<210> 13074  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13074

cgatgcacct ttcttctggt cttctgtaat gtagnatgaat ttcttccgga aaggacttaa 60  
 atcactagag gctgttgagc cacatgttat gatgattgct gtgcgacaac atattgatta 120  
 ccaattcatc ggcctagagg atgatgggtg tgaaagtgat aataatgatg atggaaatga 180  
 ttttgacatc attgaagggt gtgagttgag ttttgactac agagcaaata atcaagggcc 240  
 atatattgtc tcacatcacc gaacacagca gaggttggca atttgtatta ctcaaacatt 300  
 gaatgggttt taaagcctgc gtgcatattg aactttattc ttaatgcttg tttgcttttt 360  
 tatttaaaat attgcacaag cctgtcacag tt 392

<210> 13075  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <400> 13075

accctcagct ttaatggaag tcaagagcat gatattgcgc cgattccggt gactgggtgag 60  
 caggtatatc agcgggttca acacctgaat actgtatttg ggaagacca caataatgtt 120  
 attgtcaga cttgcatatg gaagaagagg tccattttct ctgatcttcc gtactgggtg 180  
 gatcttgatg ttagacattg tattgatgtt atgcatgtgg agaaaaatgt ttgtgacagt 240  
 gtgattgtga cattccttaa aattcaatgc acgaccaatg atggctcgaa taccatcaa 300  
 gatctatctg atatgggtat acgatcacag ttgcttcc 338

<210> 13076  
 <211> 484

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13076

tctccattaa tctagtgtt gcaacattgg acaacttccg ccatcaatga ttagagaaca 60  
 aacctttcca tgcaccaaac atctagaatg aaaaatgttt tccctttgtg catcatctct 120  
 atctttgctc aagcttccca tgagtctcct taccattaaa tgatctcctt ctcccggtgg 180  
 aagaaaacca tcatcctcca cttcactaga ggaactatga gaacttttag atgggtcact 240  
 gtccacctct tcattctcca acacaatcat ggtccttggt gaaaaaagat tacgaaactc 300  
 aataaaccaa gaggggggtg aattggttnt caaacaaaac cgtacttaat aaaacaaagt 360  
 tacggaaaaa naaacttttc taaatggatc gtatcacana aagaatatga atcgaatgta 420  
 ttcaatactt aatcaatcct tccttacaca tgagccttca ttaacttctt ttctttcaaa 480  
 tcat 484

<210> 13077  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <400> 13077

acagaagctc acgagaaact acaatgggtca taacatgtca cacgaaagtc cgattcaggt 60  
 gcataatata tcgagacgct cgaaatagaa catcggaagc tctctagaaa ttccaatgggt 120  
 cataactttt cacacggaag tcctattcag gcgcataata tatcgagaag ctggatattg 180  
 aacaacgaaa gctctcgaga aactcaaag gtcataactt gtcacacgga cattcgattc 240  
 atgcgcataa tatatcgaga cgctcgaaat tgaacaacgt atgggtgtcga gaaattcaaa 300  
 tggtcataac ttgttacacg gaagtccgat tcttgcgcat aatatattca gaagcttgaa 360  
 atagaacaac ggaagctctt gagaaactcc aatgtgtata acttgtcaca cggaagtcca 420  
 ttcaagcgca ttatata 437

<210> 13078  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13078

ggatagtata aagaagaaag ataatataga acgtcatcca agaaacaagg ttgtggcgag 60  
agtagctcct gttgacttgg aatggatgac taagattcgg gacttcttgg agatatgctc 120  
actcccaaaa aatccaacaa cgacaagaaa tatcaagaga tatgccatct attatgtgat 180  
agaggggagga gatctgtacg aaaaaggctt cacggccacc ctgttgaagt gtttgactta 240  
cgaatatcct aaatacgtaa tgaatgaaat gcataaaggg atatgtggaa tacaattagg 300  
atctcgatca atgacaactc aagttcttag aattgggtac tattggccaa caatgagaaa 360  
aaactatgta gagtatgtga aagaaagcag agaatgccaa anatttggca acacttatca 420  
tctgcctatt aaagaatngc acaacatagt ggcgcatgac c 461

<210> 13079  
<211> 484  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13079

cgcttctaca atctcccnnc ttttgatgat gacaactctg aaatcaagaa acacatacac 60  
acactttntc ctagtcgac actcaacttaa ttttccattc tccccctttg ttttttaatt 120  
tatgcttcac ttgaaattaa gttaattact tatgtgagtt cttgatttaa ttcctatttc 180  
tctccccctt tggcatcaac aaaaagccca agtgcgtaac aagtatatga caatcatata 240  
ctattaatca ttcacaagac atacattgaa gaatataaac caatcatgaa gcaagaaaca 300  
tgaatagatc aaatataana accacatagt catataacat aattcataat tgttcaatca 360  
aaccatgcaa ataaagaaat actaaattat ccaaaatgtc ataatatagc caaatacacg 420  
actagaaaac aaagtactag taatattaaa aataatagaa aacttagatg atggtggcag 480  
cgat 484

<210> 13080  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13080

tctgtccctg aganactggt tcccagaaga caacagggag tgaagattgc tgaataccct 60  
 agccttgcaa caagtcctat ggaagtagac acggagatgg acaagaaaat cgcagtatg 120  
 gtgagtagca ttttgaaaga agcctctgtg cctgaagctg atgaagatgt tccaacatct 180  
 tccaccccgga atgtttctat gcctgatgtt gagaaagatg ttccaacatc ttccggccca 240  
 natgatgaag tactctcttc cccagcaaa gagagatcaa cagaggaaga tgatcaagcc 300  
 gcagaggaga cccctgcacc aagggcacca gaacctgctc caggtgacct cattgactta 360  
 gaagaagtcg aatctgatga agaacca 388

<210> 13081  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13081

tengttgttc aatntcgagc atctcgatat gtgatgttcc tgtatcggac ctccgtgtga 60  
 taacttatga ccattntaat ttctcgagag cttccgttgt tgaatttcga gcgtctcgat 120  
 atattatgcg cctgaatcgg acatccgtgt gaagggttat gaccatttca atttcacgag 180  
 agcttccgtt gttcaatttc gagcgtctcg atatgtgatg ttctgaatc ggacctccgt 240  
 gtgataactt atgaccattn gaatttctcg agagcttccg ttgtntcaat tcgagcatct 300  
 caatatatga tgtgcctgaa tcggacatcc gagtgaaaag ttatgacaat ttcaatttct 360  
 cgagagcttc cgtggttcaa ttccggcgctc tccatatgtg atgtgcttga atctgaca 418

<210> 13082  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13082

agcnttcttt canattattg cgcanaaatc agtctgtcca atgggacgat gattgtcaaa 60  
 tggcatttga aaggattaaa cgggtgttga tgaatcctcc tgtgttcatg ccaccggtgc 120  
 ccagaagacc tcttattcga tacatgacag tattagatga gtcgatgggg tatgtgttgg 180  
 gacaacacga caaatccgga aaaagggaac gagccatcta ttacttgagc aagaagttca 240

cagcgtgcga gatgaactac tctttgctag agaggacgtg tngtgccatg gtgtgggcaa 300  
 ctcaccgtnt gaggcagtat atgctgagtt acattacttg gttggtgtcc anaatgaatc 360  
 atgtcaagtg catctttgaa aagcccgtc tcact 395

<210> 13083  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13083

gctggaatca tttatcctat ctctgacaac caatgggtga gtcccgtcca ggtagtcccg 60  
 aaaaagactg gcctcacagt gatcagaaat gagaaggagc agctgattcc tactcgggtg 120  
 cagaacagtt ggagagtctg cattgactat aggaggctga accagggttac caaaaaggac 180  
 cattttcccc tgccattcat tgaccagatg cttgaacgcc tggcaggtaa atcccactac 240  
 tgtttccttg atgggttttgc tgggttatatg caaattacta ttgctcctga ggatcaggan 300  
 aagaccacat tcacctgcc cttcagcact tttgcctata ggaggatgcc tttcggcctg 360  
 tgcaatgccc ctggtacctt ccaacgggtgc atgattagta ttttcagt 408

<210> 13084  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <400> 13084

ttcaaatgtg ggaggatcta tttctgaagg ccaaacacgg aggacttgat gtcatacaca 60  
 cttatgtctt ctgggatgtc catgaacctt ctctggcaa tgtactactc cggatcctcc 120  
 tttctttcca tctatctacc tcattttaaa agaaaaataa taatattttt ttggctcttt 180  
 gtgatttttc tgatgctggg tcgcagtaca attttgaacg aaggtatgat ctagcacggt 240  
 tcattaagac ggtgcagaag gtggggcctt atgctgatct tcggattgga cttatgtat 300  
 gcgcttattg gaactttgcg tacattttgc ttccataatc catatctctc tctctgtgtt 360  
 tgtttgagcg cgcgtgtaat atgtgagaat gttggattac aatccattct taacg 415

<210> 13085



<211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13085

gagtttccta atctcttatt agcactcgct atgatgatgt catcctcata caagagaagg 60  
 taaagaacac acactttcct ttttttcagg atgtatacat agttgtcata tatgtttcta 120  
 atgaagccat atctgatcaa gaactcatca aatttcatat accacattcg agggctttac 180  
 tttagtccat acaagaattt tcagcaagca caccttggtc tccccttctt caaaaccttc 240  
 aggctgggtc atgtaaattg tttccttaag atttccatgg tgaaaagctg ttttaacatc 300  
 cagttgttca agttccaaat tgtactgatt taccacacca agtatgattc taattgaaca 360  
 atgcttcata aatgtgaana aatctcattg taatcaattc cttccaccta tgta 414

<210> 13086  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13086

agcttacttg ctgagattcc attatgggaa agatctcgat ccagctgagt tgatccattg 60  
 tgatagtacc gcggctattg caaaatttga gaaccattat tacaatggta aaaaacgaca 120  
 gatacgttgt aagcacagca ctggttagaga attactctca acaggagctg ttagagtgga 180  
 tcacgtacgc actgatgata gtttagcaga ttctttgacg aaaggattag ctagagagaa 240  
 agtccataac acttctagaa gaatgggact attgccctta ctgcatgat cattcatgat 300  
 ggtaacccaa cctanatgac tggagatccc aagaactagg ttcaatgggt aataacaagt 360  
 tatgaagtga tatgagatga acatgtnnngt ataagtgaaa gcagcatgat tcctgaagta 420  
 acaagaggat gagttatgaa aaaaaaaatc ataattctta atgagatcta tactctatgt 480  
 tgagtggagt acct 494

<210> 13087  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13087

agcttcaacg cagttgggca tgaagtggaa ctattcttat cattgatctc catgaaggct 60  
tcaatcgggt ggtgtntagt aatacggagg attataattt cgtgtttttt gaaggaccgt 120  
ggatgtttgt gaaccactac ctattattc anagatggag atcattcttc ccaatgcatg 180  
cagaagagac gaagaagata gcggtatggg tcaagattca gtgtctcctt attgaattat 240  
ataatgatgt gttctcgtca agaattagga tgagtttagg caagtttctc aagtaggata 300  
aattaacatc aatccactcc aagggaaaat ttgcaagaat gtgtgtggac ctagattgga 360  
taaacccttg anatcttata tntacgtgag agggtttaag ttgaacctgg agtatg 416

<210> 13088  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13088

gcttaatggc ttctcgacat anactattat atcttacagt gagattntca atgtcaattg 60  
gatctgttag tttttcatca gttccaatat cagaatttgc attccttgtc catcgtttca 120  
aaatgtagtg cgatggaagg gtaagaacat ttgtaacagt gaagacagtc aatatatgtc 180  
aacaaagaac gcctgagtat tcaaacatct ggcagctgca attcaccttc atttcagaga 240  
tatttaatgt gaccatgtat gccttgtgat catgtacata ttntgcaacc ctgtatntac 300  
tgatcacacc atcatcctca acattattng cagtataagc aaaagtttcc accagttcct 360  
cctgannatt tgcanaaatc ttcttagtgt acatatttgc tgcttttgtg 410

<210> 13089  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13089

ntagaaggat cactatttct ccgtgagagt gtcctacatg ccacaaagcc tcttaggcct 60  
acaccaatta ttgttggata ggtatcatca tatttatgct aagaaaatca tgcacatcag 120  
aaagaataag ttaaaatagt ataccaattg gtacaatagc accatctgag ccaccacaaa 180

gcatcaagtc ctgcaattac ttacatTTTT aatgttttca ataaaaataac tatataatta 240  
 cactaaactt gttttaagaa ataaaagatt ggtaaaatat gagaaatcta ccatctaata 300  
 agcaaagtct gaagtgagat acttacagct tcacctctaa tgatatgggt tgcagcattc 360  
 aatatacaaa aattactagt agcacagct gtagagattg aataattagg gcccatccac 420  
 ccctaaagtt tcatatg 437

<210> 13090  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13090

ctgcagcctt ccctttttta aatatatggt tagttgtcct ttatatataa aagattcatt 60  
 aatgtagttt actactttgt tagatataga attatattga attaaaagt aaattaaaga 120  
 gttaaaatgt gtatattact gaataaagtt aaaagagaat tcagagaata atgaagaaag 180  
 aagagcgaga gaagacataa catgttacat gtgtacatcg atcatagacc acaaaaatacc 240  
 aattatatga atttaaattnn taaatTTTct taggtactct gggtganaaa tataaatcctt 300  
 agataataat ctaaaaacga catatatTnt agatatgann aaattaatta agcctaatat 360  
 tagcatagat gata 374

<210> 13091  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13091

agcttctata gaaggttcgt tcctaatttc tctacaattg catcaccttt caatgagctg 60  
 gtgaagaaga atgtggcatt tacctgnggt gaaaaacaag agcaagcctt tgctttgctc 120  
 anagaanagc ttactaaggc acctgttcta gctcttctg acttttctaa aacttttgag 180  
 ctagaatatg atgcctctgg agtgngagtt ggagctgtat tgttacaagg tgggcaccct 240  
 atngcttatt ntagtgaana aattcattgt gccaccctca actacccac ctatgataaa 300  
 gagctntatg ccttaataag agccctccan acttgggagc attatccttg tttccaangg 360

gaattgtcat tcatagtgat catcantcac ttaagt

396

<210> 13092  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13092

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tactcctctt gaagtactnt ntaagaaagt atatttaaag agatataatt tcttatttct 120  
gaaaaataaa ctcaactcaa ttaaatttaa ttaaataaca acttttttaa agaaaataaa 180  
tattaattaa agaattagat taaattcaat cccattcgaa tcacttaaga ttattggaag 240  
atttaaagta ttttccattg ttatcccacc acgacaaatc aacggtgggc atcacgaatg 300  
tgttatcttg ttgtggataa gtcacgggta cacaaaatct agaacgattc ctgatagcat 360  
gtattataat aatatataca cgacaacaat gttcctaaca tgtaaagctt tctatataaa 420  
gatatgattg tcattataat aaggaatctt atatcttata at 462

<210> 13093  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13093

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tgcaacaaac agtgacctat gtgccgaacg tcgcgaatgc tgaaatcacg ctggcagcct 120  
cgaaggatcc ggtgattgcc gacaataacg atctcacgac actaacagca acagtcgctg 180  
atacagaggg caatgcgata gccaaactg aggtaacatt tactctgccg gaagatgtga 240  
aggcgaactt cacgctgagc gatggcggta aagtgattac tgatgctgaa ggcaaagcga 300  
aagtcacgct gaaaggatca aaagcaggcg ctcatactgt tacagcatcg atgactggcg 360  
gtaagagtga gcagttgggtg gtgaacttta ttgcggatac gctcact 407

<210> 13094  
<211> 493

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13094

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 gaagttgatt gcaagaccat ggttgacact tttaatagtt gtgctaaagg aatctctgat 120  
 ttttatgtca ttntaaataa atgtagagca cttatttcat ctatcccaaa ctctagaaga 180  
 tgctntgatt aggttgcatt ggatgtgccg catcacctaa caaagtcact ctcccaattc 240  
 cccaagtgtt gatcatgcct ctgtcacata tatccctctg cagaatcatg tgctctagtg 300  
 tttctgatat gagtgaatc acttcattgc accaattacc aaagagagat ccanaagcct 360  
 cttcttccct tggctaacat ctgaagcaac anagtactgg ttcaagccca agaaaacctt 420  
 tgtaccttca gttcaatcac caaaacagaa actntanata gtggaatagt tataagtata 480  
 acattttcta aca 493

<210> 13095  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <400> 13095

tggacagttc agcagaccac atgtttgtgg ttaggattct tccctcagga acccaatgag 60  
 catatacatc cttcaatggt tgaatggcct tttggccttc tgggggtctcc ctgcctccaa 120  
 tgaggacacg gtccggattg aaaagatctt ggattgcagt tccctcagca aggaattcag 180  
 ggtttgaaag gatttggaac ttgattccct tgccattgtg agtcaaaatt ttctctatgg 240  
 cctcagcagt tttcacaggg acagtggatt tctccaccac aatcttgtca ctcttgata 300  
 catcagcaat catgcgtgct gcactctccc agtacgttaa atccgcggcc ttaccggctc 360  
 caagaccgcg agtttttgtc ggggtgttga cagagacaaa cactatgtct gcctcataga 420  
 catgtttctc aacatca 437

<210> 13096  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13096

agcttgtgcc aattggtcca ttgttgagaa gttatggtga cacaattgca actgcaaaat 60  
caatcggaca atactgggaa gaagatctct cttgtatgag ttggctcgac caacaacctc 120  
atggttctgt cttgtatggt gcctttggta gtttcactca ttntgatcaa aaccaattca 180  
atgaactagc tcttggaatt gacctacca atagaccttt tctttgggtt gtgcgtcaag 240  
acaataaaaag ggtataccct aatgaattct t 271

<210> 13097  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 13097

tgtgctatta actaattaga atcttacctg caccaattgc atatacattt ttcaagccac 60  
ccatgacctc atgggtgaca aggtcactgt tgtcccaaac aataaaatgt ggttgtcgta 120  
gaaactttgc aagaggtttt ctccatttct catctccgca aattcgggca ttggcatact 180  
ccttgttgta tatttctgag gcaatatttg gaccaccaag atacagtatg ttctccatag 240  
gcactccagc tgtcaaagta tgcattgtaa agagttgaga atgaggaaag ataaaaatag 300  
atatactacc aaattaccag cttccattgg tcgttatcaa acaaattcta gataacaaat 360  
agcagtacct agctggtgga ctatcagttt atatgga 397

<210> 13098  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13098

agcttcaaga aaaagatggc ctcagcaaat tccttatttc cagaaggga ttctatcaat 60  
agacctcaa tctttaatgg agagggttac cactactgga aaacctgaat gcaaattttt 120  
atcgaggcaa tagatctaaa tatctgggaa gccattgaaa tagggcctta tataccacc 180  
acagtagaaa gagtttcaat agatggtagt tcatcaagt aaagcataac catagaanaa 240  
cctagagata gatggtctga agaggataga anacgagtac aatacaancc taaagccaaa 300

aacataataa catctgccct aggaatggat gaatatnta gagtttcana tngcaagagt 360  
gctaaggaaa tgtgggacac tcttcgatta acacatgaag gaactacaga tgttaaaaga 420  
tctanggata atgcactaac tcatgagtat gaat 454

<210> 13099  
<211> 466  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13099

agctnntcac acggatttcg attcggngac atatcttate tagacgctca aaattttaaca 60  
acggaagctc tcgagaaatt tgaatggctg taacatttca cacggatgct cgattcgagg 120  
acataattca tctagacgct cgaaactgtt caacggaagc tctcgagaaa ttcgaatggc 180  
cataacattt cactcggatg tttgattcag ggacataact catctagacg ctcaaaattt 240  
aacaacggaa gctgtcgaga aattcgaatg gtcataagtt ttaacacgga tgttcgattc 300  
gcgacataat atatcaagac gctcgaatat gaacagcgga agctctcgag aaattcgaat 360  
ggtcataact nttcacacgg atgttcgatt cggggacata actcatctag acgtcaaaa 420  
ttgaacaacg gaagctctcg agaaatctaa tgtcataact ttcaca 466

<210> 13100  
<211> 366  
<212> DNA  
<213> Glycine max  
<400> 13100

gtctcacgat tgtcacgtgc tcatgcatct tttgttagtc gtggctatac gagacatctt 60  
gccaaacaaa gtcaagttag ccataactca cctgtgcttt ttcttccatg ctatatgtag 120  
caaagtcatt gatccctgtc agtatgatga gttggaaaat gacgccgcaa ttatatagtg 180  
tcagttggag atgtatttcc ccctgcttt ctatgacatc atgattcact tgattgagca 240  
tctggtcata caaatcaaat gctgtgggtcc tgtttatcta tagtggatgt acccggttaa 300  
gcgatacatg aagattctat aaggggttac atagaatcta tatcatccag aagcatctat 360  
tgttga 366

<210> 13101  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13101

agctttctcga tatattatgc acatgaatcg gactcttttag tgacaagtta tgggccattg 60  
 aatgttttcga gagcttccgc tgc tcaattt cgagcgtctc gatataattat actcctgaat 120  
 cggacctccg agtgaaaagt taagaccatt tgaatttctc gagagcttcc gttgttcaat 180  
 tttgagcgtc tcgatataatt atgcgcctga gtcggacctt cgagtggcga gttatgaaca 240  
 tctgaatttc tcgagagctt ccgttgctca atttcgaccg tttcgatata ttatactcct 300  
 gaatcggacc tccgagtga cagttatgac catttgaatn tctcgagatc ttccgttggt 360  
 caatttcgag cgtctctata tgtgat 386

<210> 13102  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 13102

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 aagctctcga gaaattcgaa tggtcataac ttttcacacg gatgtccgat tcgggcgcgat 120  
 aatatgtcga gacgctcgaa attgaacaac ggaagctctc gagaaattct aatgggcata 180  
 acttttctact cggaggaccg attcaggcgc ataatatatc gagacgctcg aaattgaaca 240  
 acggaagctc tcgagaaatt caaatgggtca taacttttaa ctcagagggtc cgattcaggc 300  
 gcataatata tcgagacgct cgaaatggaa catcgaaagc tctctagaaa ttcaaattggt 360  
 cataactttt cacttgg 377

<210> 13103  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13103

agctttctcta tatgtgatgc acctaaatct gttttccgag ttanaagtta tgaaccattt 60



gattttctcaa gcggtatctt ttctcaatth cgagcgtctc gatataattat gcacctgaat 120  
 ctgacctccg agagaaaagt tatgaccatt cgaattgctc aagagcttcc attgttcaat 180  
 ttcgagcgtg tcgatataatt atgcgcctga atcggaacctc cgagttacaa gttatgacct 240  
 tctaataatct cgatagctct ctcgttttaa tttcgaacgt ctcgacatat tatgcgcccg 300  
 aatcggaat ccgtgtgaaa agtatgacca t 331

<210> 13104  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13104

ntganaatat aatatcttga tttctaaaat acccattttc tctccccctt tggcaacata 60  
 aaaaaggcca aagtcataa aataaaacat acataaatga ttctaaaaca tacataaagc 120  
 ataatttgaa tatcaccaaa tttaaatata taccacttgt catatatcat caaaataact 180  
 aagtctaagc ataaaacata aacatataag tgcaaaataa aaaaaaaaca tcaagttcag 240  
 tcataattaa ctaagtacca aatacttaaa acataaccaa tgttttagag aataatgtca 300  
 taaaacatag ccaaatacat ggctttaaact taaaatataa taataatcta aatctatgaa 360  
 gatgggtggtg gaagggtgaa gcaatcaatc aagtaattca aacatatcaa acaagaatca 420  
 ca 422

<210> 13105  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13105

nnagcttgtt gaaatataat caatgcaaga cctcttgaga gtattagtga acatgtcctc 60  
 cagttggtca ctagagttga caaactcaat ggtgatntt cctgagagca ctttctctct 120  
 caaaaatga cagtcttcta ctgtgtttag tccattcatg gaagaccgga ttagatácaa 180  
 tgtggagaac ggcttgatta tcgcanataa gattgggtggc ttgagtgtct ccaaattgga 240  
 actgctggag aagtntcctt agccatgtaa tttcacttgt agttgcaggc atggcacggt 300

attcagcttc agcactggat ctagtgacta tattttgttt cttgcttcn catgggatca 360  
aatntcctca aataagaaca caataaccaa tcatggactt cgtggctgat ggtgagtctg 420  
cctaatacgc atcagagtan aacaaatgat ct 452

<210> 13106  
<211> 464  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13106

agcttgggcc cacactctgt tcagctctct ctaatctaga ggtaaatacta ggatctctat 60  
cagatactat gctagatggc acaccatgta acctgacaac ctcaattata tacaaggtgg 120  
tcaacttctc caaggaaaat ctgatattaa tgggaatgaa gtgagcagac ttagtcaatc 180  
tgtcaacaat aaccagata gaatctaaac ctctaggggt tctaggtagt cctaccacaa 240  
aatccatgga aatactgtcc cacttccact gnggtatctc tatggggttg aacttccttg 300  
aaggtctctg atattctatc ttagccttct gacagactan gcatgcatac acaaactcac 360  
taacctctct cttcatgttg ggccacaaaa acgtcgtctt aaatcatgat acatcttggt 420  
agcaccagga tggatgctca nantactcct atgtccttcc tcta 464

<210> 13107  
<211> 376  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13107

agctttanat tgaataacgg aagctatcta tatattcata ttgtcataac tagtcacacg 60  
gaagtccgat tcaggcgagt aatatatcga gaagcttgaa attgaacaac gaatactctc 120  
gagaaatgta aatggtcac ctaacttgtc acacggaagt ccgattcagg cgcatactat 180  
atcgagacgc tcgaaatcta accacggacg ctctcgagaa atgcaaattg tcataacttt 240  
tagcacgaga gcccgactca attgcataat atatcgagac actcgaaatt gaacaccgaa 300  
agctctcgag aaattcacat gatcataact tcttacacgt gagtcagatg cacacctata 360  
atatatcgag atgctc 376

<210> 13108  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13108

ntcaactcgga ggcccgattc aggcgcataa tatatcgata cgctcgaaat tgaacaacgg 60  
 aagctatcga gaaattcaaa tgggtcaatac ttcgaaactcg gaggtcctat taagggtgcat 120  
 aatatatcta gacgctcaaa attttacaat ggaagctctt tggctataca aatggtcata 180  
 acttttcact cgaaggtccg attaaggcgc ataatatatc gagacgctca aaattgaaca 240  
 atggaagctc ttgagcaatt caaatgggtca taacttgtca ctgggaggtg cgattcaggc 300  
 gcataatata tcgtgacgct cgaaattgaa gaatggaagc tcttgagcaa ttaaattggga 360  
 taacttgtac t 371

<210> 13109  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
  
 <400> 13109

agccttgatg taacatttgg agagggttaat gattcaactt tatgatgcgc tccatgagag 60  
 gttggatcag atggagaata gagaccatat gaattgtcga agagcttcca ttgttcaatt 120  
 tcgagcgtct agatatataa tgcgcctcaa tcggacctcc gagataaaag ttatgaccat 180  
 ttgaaatgct caagagcttc cattgttcaa ttcgagcgt cacgatatat tatgcacctg 240  
 aatcggacct gcgagtgaca acttatgacc atttgaattg ctcaagagct tccattgttc 300  
 aattttgagc gtcacgatat attatgcacc tgaatcggac ctgagagtga acacttatga 360  
 ccatttgaat tgctc 375

<210> 13110  
 <211> 320  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13110

ntacccttca cttgcaataa ccactttctca taacaacagc acacactctt ctgctagtgt 60  
ccacaacaat ctcttagtc caaaagaaat tcataatact gttgtatcta gttcttctaa 120  
actttggcat caaagactat gccatcctaa caaggatgca ctatcaattg tactaaataa 180  
atgtaataata ccctttatca ataaaactag cagtgatctt tgtaattctt gctctatagc 240  
caaattctac aaactaccct cttctccctc ttctactggt tatactgcac ctcttgaatt 300  
agtattcttt gatgtttggg 320

<210> 13111  
<211> 354  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13111

agctgaatct gacagctgca tggaatgtct tttgttctct tctatggatg gagcaatgca 60  
ggatttcacg tgagcatgta tatgccatct ggaccagtgg agactgttat gccatatctc 120  
ctaataaggg ctgaacagaa tagaggaatg ttggctgctt cgggctatga caggcaactg 180  
atgaggtaac aaaaaaacat ttttaattata ttaaccactt ttcattctgg catcatgcac 240  
atgaatcaca cattgtgatg tgtatgcang aaggagtcgt gaatgagact aacagctgct 300  
gtcttttaat tttctatact cttatgggac gagttaatga gatgtgataa tgtc 354

<210> 13112  
<211> 431  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13112

gtttatccat gatatcctat gatggtgagc ttctttctgt ttcattctct cattgttgtg 60  
gcgtgtccaa tcattcttct tccttctcca ttctgtgcc attgaacttc aagaagcaaa 120  
gaactccatt gatgaagaag atccaaggcc tacaagctcc acatggagtt acatcacatg 180  
catatcatat tctgagtgtg gctagtaaca acacacaaca aatgataatt tttgggagga 240  
tgatccaaaa gtttttgctt catcaccta caacaactaa gtcatagtag agaagaagag 300  
tcaaagtctt tcaagtatca tgtatttggc agtttttaag gtcaacatag ctgaattctt 360

ntctgcaacc tttatatgtt tgattgaaga acgaaatgtt gaatactcta natcaactca 420  
ctttttaatt t 431

<210> 13113  
<211> 424  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13113

tatcctcctc tanagcatgg aagcctaattg ccgagaagga ttttgatgcc atgtattata 60  
ttctttaagc taatagaatg tattttctat tttaaagaaa aagcttaaaa atcactaatt 120  
tattttcttt aatgcattag gattgttcat ttccatttct ttttccaact tttgtttcta 180  
taattaaaag atgatagcaa ttcttctatt tgcagaaatg acttaaattgt gaagggtgtca 240  
aacatcaaaa ttcaggggtgt ggggcataaa tatatatgcc taagatcaca ttattatgta 300  
atcaattcta atttttataa taaagtatta tgtttcttta ttatatttac actatttgat 360  
aagatagcta ttttgataaa gtcctttata attgagatta tgaaaatgag aaacaagtct 420  
ctta 424

<210> 13114  
<211> 423  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13114

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ttgagaggct tttccttctt atttctatag ctatggacca aggagtgtag cgatcatattc 120  
atcttagtag acatggccct cctataacat atttagcctt tgcataatgat gttattctat 180  
ttgtgaaggc tatcctagag catgtccatg tgatgaagaa tattctaaat ctattttgca 240  
agagctccag gtagaaatta agcttagaga aatctcgcat gttattttta aatattgtgg 300  
gaagaaatct caagcaacat ttgagtgtatg ctatatggat gtagtggaca gaggacctan 360  
gcaattacct tgtgtcccaa attttcatag naggcctca tgaattacct tctagtttat 420  
tat 423

<210> 13115  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13115

ggatcttaag caccgctgct gcagctntca ctcggtgtcc attaggcgctc tttatatcga 60  
 gacgctcgaa attgaacaac ggaagctctc gagaaatgga aatgatcatc actcttcact 120  
 cagatgtccg aatcagacgc ataatatatc gagacgctcg aaattgaact acggaagctc 180  
 tcgagaaatt taaatgatca taaattctca ctcggatgtc caattgagga acatcagata 240  
 tcgagacgct cgaaantgag caacggaacc tctcaggaga ttcaaattggg catagacttt 300  
 cagacggaag ttcgattcaa gcacatcaca tatggagacg 340

<210> 13116  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13116

agcttcgaat tanatcatgt tatatactct ctgttctatt gatcctaate ctgaaaattg 60  
 attcttgttt atatcatatt cggttgtttat tttgcagagc ttctacctgg aatcagggaa 120  
 gatgcagaag ctggaactct gcctgctaatt gttgttgctg gaatggaagg attctacaat 180  
 atataactat aaaaatgcag taagtntata ttctatgtct tatattcata tacacacatg 240  
 cattgtgata tccaaacttt tcataaatatc ggtggtgtgg gaacagatat tagtttactc 300  
 ataattcact atgaagctga actcagaaaa tcacgtgttt caagtatgag aagattgcgt 360  
 ctattggcgc tgtcatctat tcttgttctt ttactttntt catgtgttga ttcatagttg 420  
 ggtataata 429

<210> 13117  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 13117

tcaggctctgc ttaatataac acttttttagt ttactatttc ttaatttctt cctgctatta 60  
 gtgcaaacca ttttgctatg ttttgtgttt ttttgttcgt gttgtggttt tgagtttgaa 120  
 agttgaacgg ttgtgcttag ctttttgaac ttacggtat gttgttggtt ttggatggca 180  
 ctatatcaca tgaatgcatt tgggttgcaa cctgctgctt ttgcaagggg ttgtgaagcg 240  
 aatttaataa taaataaaac aatgttttct ctctggctct ctttgtatat ttattgaaaa 300  
 actatacaat atttatagag tatcttcaat aataactaaa aaattaagta ttatgataaa 360  
 aaaattttta cataagtgac ttaatga 387

<210> 13118  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13118

agcttcatgg ccgaaaattc gaggatattc acgttgagcc tcgttcttaa attggtgccc 60  
 catanaagaa tgaaaataag aatcatcaat aaacaatata tattagatat aacttatggt 120  
 tgactaccaa atttacttgt taatgatatt taattagaca tattatataa ttatatgtat 180  
 accttgccct gccagaact gagatcgggtg tggcagattg tgggaagag gatcttgatt 240  
 cgaacctcca ttntctgagg aggatgaaca agaacacgtt ccaccacaaa gggctctcca 300  
 tgaccatatg ccacggcagc ttcatcataa taataataat aataataata ataataatat 360  
 tgagctatga gaatgagaat ttgtgcgcgt tctgtacgat agtatgatct gaatanataa 420  
 tat 423

<210> 13119  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13119

tttcgagcgt ctcgaattat tactggactc aatcggactt ccgagtgaag agttattgtc 60  
 gttagaatta gctgcgagct tcggttntaa atttcgagcg tctcgatata ttacgggact 120  
 caatcggact tccgagtgaag atgttattgt cgttcgaatn tgctacgagc ttcggttnta 180

aatttcgagc gtctcgatat gttacgggac tcagtcggac ttccgagtga aatgttattg 240  
 tcgttagcat ttgctgcgag cttcgggtttt aaaattcgag cgtcacgata tattacggga 300  
 ctcaatcaga cttccgagtg aaatgttatt gtcgttagca tntgctgcga gcttcggnt 360  
 ataatttgag cgtcttatat atta 384

<210> 13120  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13120

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 ctggtattat ntgtctttttt aaaataatgc attatttcat aaaaaagtta actacactag 120  
 ctagtatgat aaaatcattc tccttgacta anatctctc attaaaatag ttaanatcta 180  
 attgtaaatt agtttaaata gtaatatattt tgccatagca cagtatacaa tataaattgt 240  
 tatttttata taactaaatt cataataata aaaaaattaa tatgtaaatc atattaaaaat 300  
 taaagttcat aataaataaa tathtagaac atataaatta tagtttagat ctacaataaa 360  
 taatttatat tgtagtacia gaatactntt aactatttga taatttcttt taaaaattaa 420  
 aatatgtaca acaataaaga tgaaaatgat agattgaaag gtataataac ca 472

<210> 13121  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13121

aatgacacta acttgtgact cggatatctg attgagtcac ttcatcatgc gaaacgctcg 60  
 aaattgaata cagaagctct aagcaagtac acatgacaat aactcttgac tcagatattc 120  
 gagtgagtca ttttataatt agagacgctc ataattgaat gtcgagctc tcaccaaatt 180  
 caaatgacaa taactttata ctcagatgtc cgattgagtc ccgtaatata tcttgacgct 240  
 caaatggaa aacagaagct ctgagcaaat tcgagcgaaa gtaacttttg actcanatgt 300  
 ccgatngagt catttaataa ttgaagacgc tcggaatatg aatatagaag ctctcaciaa 360



aatcatatga caataacttt atac

384

<210> 13122  
<211> 406  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13122

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ctggcatgaa ctattccaat taagtgaac aaaactgcgc ataagttctg cgtactacct 120  
gcaatccaat ggtcagacca aagttcttaa tcgagtcatt gagcaatacc ttcgtgcttt 180  
tggtcacaac aagccatctt cttggggtaa atcttttatt tgggtatggat ggtcctacaa 240  
taccttcaaa cgctcagctn taggtgcttc tccttatgaa atcacttacg ggaaaaaagc 300  
cccttagcat tccccaatat cttacaggaa cctcaacaaa tgatgtagtt gacaacttct 360  
taagtaatag ggaagccgct tttgcagagc tgaaaagaag cttttg 406

<210> 13123  
<211> 443  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13123

agctntatgt gacacacttt gtcactcagt gtttcttttg aaaaccattg tgaaaatact 60  
attttatcaa ttactagatg acaatgcttt tgttttcata aaatatgggt ttactcattg 120  
gacaaaacta tctataactt gggttttgca aatttgtag tgaaaaacaa cttcttgcca 180  
acagatttta ttttcatcta acaggttatt caacctcct tctagtgtga tatctatttt 240  
ttcattatct tggacaacat aatttagttg cattgatgta tctatgtatt tcttttatgt 300  
atgttatgat acccacatct tgagggtgaa atgtatttaa ctatatatgg agtgcgttga 360  
tttttatata tatatctggc ccattcgaat gatattgtcg atgaaggctt ctattttaag 420  
ctacaataat tacttattct att 443

<210> 13124  
<211> 470

<212> DNA  
<213> Glycine max

<400> 13124

agctttaagc caaacatgta atcaattaca ttatattacc ttaaaccata tcaccacaga 60  
ataaatcatg gtaatggatt aaatcatggg gtaatcgatt aaaatagaag gtttcaaaaa 120  
tcgataacca cacaacaaca cagtgtaatc gtttaacacg agagagtaat cgattaaaat 180  
agtgaaaaac acaatatgat aaagtaaaat atgtatgttt taaaaaaaaa attcaaccac 240  
atatcagcat atcaacatac taagatatta ctgaagataa taacaaacat agagagcata 300  
tataacaagc tacatgtact aaaacataac atcatccaac actagatcca tctaagatac 360  
ctagttcatt cctaataaag aagaacttat ctctagcaag aggggttagta aagatgtcag 420  
ctagatgatg ttcactatca tcaaactcaa tgcaacaatc acactttgat 470

<210> 13125  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13125

gcttccatgc aattcactaa atgggcatct ttgtttttgt gcatcgcatc ctctaacggg 60  
agattgtgag gacataacaa gtgtctacta gtatggtaac ttgttattgt acccacttgt 120  
taccaagggt gagatcatta ccagcttttt tgcatatccg actctaaggt ataattgagt 180  
taaatacctt actatanagt ctgaccagga cgacattaat tgggtcaattg tcttaagaat 240  
tactacatat taggtttttc ttattttaaaa agtagttatt tattttttaat cccccaaaaa 300  
aattgtttta gataaaacaa aacttgtaaa actcttattg tgaaaataaa ctgatacaag 360  
tatccatttg ataaatatat aaaatttggt ttttcactat aaagcatgtt ntaatatata 420  
anaagtttaa ttaanattta attaaacaca catctcaatt atatntaaat ctaaaa 476

<210> 13126  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13126

taaatgtttg tcttatttgt acacacgcgc aattgcaatt attattgaat atcanattat 60  
 caatagtaag tactaagtac taagtacaac gaaattcaat aaaatttgat cgattctttt 120  
 ccgctctccc accaaggaat atcaccacca tccaaatctt agattgttac taattataca 180  
 agtetaatta tcaaattaat agagcaatat catcctaagc aagaacctgg gaaaaaacg 240  
 ttctatttnt ctttataaac attacagtgt tttgtttata tatatattct aaatatcaaa 300  
 ttatgttttag caccattaaa caaacgtgt gtgatcaatt cattttaatg tgtttatagc 360  
 tagcacatga ggaaaacaga tacgactaga ttataattgt tttacaaacc gaatcaatga 420  
 ccaatatatc tctttctttc ttcctaa 447

<210> 13127  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13127

agctaagcac taacattctt cttctttggc aaattttgtc taaaacatac ttagacactt 60  
 cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat cagagtaatc 120  
 aagcacagcg gtatctgtag tggcgacagc ataattctgc aagttgcaag tcgtttcccg 180  
 gatgtcaaga catctcacgt gaccatcagc ttttgctccc cctgtctcca tgctcttact 240  
 gctgtgaagc agttcactgc agcatcttct atcagctact agtcttttcc aggatgtcaa 300  
 gacatctcat gtgacatnca gcttttgctc cccctgtctc catgctcgta ctgcatcttc 360  
 tatcagctac tagttgcagt agcttacatc aatcatcatc agcagcagca gtctccccct 420  
 cagaatcata tacatacaac tccccctcaa atcatg 456

<210> 13128  
 <211> 287  
 <212> DNA  
 <213> Glycine max  
 <400> 13128

ctctgtggtt atgctcctct gccgacacca cacagatctt tgcccttctg tgcaacaatg 60  
 tgaagcaatt gaacaaccag aagcttatgc tgaacacata tacaatagac ctctgtctcc 120

tcagcagcgg aagcagccac aatagaacaa ctatgacctc tccagcaaca tgtacaatcc 180  
cgactggagg aatcatccca accttagatg gtcgaatcct tcacaacaat agcagcaaca 240  
acaacgacct tattctcaaa tggtgttgga ccaagaagac catacgt 287

<210> 13129  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13129

aaaagntatt gtcatttgaa tntgttcaaa gcttctatctt ccaatttcaa gcatcatgat 60  
atatgacggg actcaatcgg acatccgagt aaaaactaat tgtcgtttga atttcctcag 120  
agtttctatt ttcaattttg cgagagcctc tgtattaatc tcgaccgtca tatactatta 180  
aataagtcaa tcggacatcc gagtcaaaag ttattggcat tagaatttgc tcacagcgcc 240  
tgttttcaat tctgagcgtc tctatatatt acgggaatca atctgacatc cgagtataaa 300  
tttattggcg atagaattag atcaatgttt ctattttcaa taccgcgcgt ctcgatatat 360  
gaagggacta catttga 377

<210> 13130  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 13130

agccttggag tttccaagtg ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60  
caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
gacagctttc caggttctgc tatccagtga ttgaggaag gccaccatc ttgctttcca 180  
gtattcatag ttgcttccat caagaattgg tggctgttgc actggctctc cttctttctc 240  
catgttcatc agaatttctc tcccagatc tcaactctgtg atttcgagtg ttggctctga 300  
taccaattga aattctgata ccaggggaca gatgtcgtac aggatgtcac gacatcacgc 360  
ttcagaacat gcagtttatg tgtgtccgta tgaacagatt aaacaagtaa ataacacaag 420  
agaattgtta cccagttcg 439

<210> 13131  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 13131

ccatttgtct acctaggaat acctatatgt gcaaattccga ggcgggggtca gctgtgggat 60  
cctatttctca aaaagtgtga gagagtatta tctcagcgga agcaaagaca ccttttcgttt 120  
gggggggagag tgacgcttat ccagtcagtc ttaacttcca ttcccattha ttttttgtgt 180  
tctttcggga ttccaagaa ggaggtggac aagttagtc gtttgcaatg tatattccta 240  
tggggaggag gagcagatca caacaagatt gcttggatta aatgggagac agtatgcctc 300  
ccacaagata aaggggactt gtgtatcaag gacatatata ctttcaatct tgctc 355

<210> 13132  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13132

agctngtate ttctattaat ggagattaat cttttcttcc acatcgtgtg ngctgcagga 60  
aatgatcaac catatgaaga ttggtatagt agaagcaaag catggtctct atcacctgat 120  
accaaactag ttgaccacca aagctgtaaa ctctaccatc acccatcctc natgcaatgt 180  
aattcccata aaccttcggc acttttaggtt gcgtcacctc tcancttgaa agaatacaat 240  
gtatgaaaac ctattatcct cttctaagaa ataacacaaa ttgtgtctgc aacacatgtc 300  
atztatgcac agcacaagaa tatgcctttt ctctaacag ttcacatgca tctcatgtta 360  
tcgatttact tcacatggat ttatgggggc cgtgtcaaaa ctatcaatgc atggacacaa 420  
atat 424

<210> 13133  
<211> 247  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13133

tatanggtta aagtctcacg attgtcacgt gctcatgcaa ctattgttag ncnnggctat 60

acgagacatc ttgcctaaca aagtcaagtt cacgataact cgccgtgtgct ttttctttca 120  
 tgctatatgt agcaaagtga ttgatccact aatgtttgat gagttggaaa atgaggccgc 180  
 aattatactg tgccgtgttg agatgtatct tccccctgct attcttgaca tcatgattca 240  
 cttgatc 247

<210> 13134  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 13134

acaaaataat tatgatcttt caagcaacag atacaatcca ggtagagga atcatccaaa 60  
 tctgagatgg acaagtcctc cacaacaaca gcagcttgct cctccatttc tgaatgttgc 120  
 tggccaagc aagccatatg ttcctcccc aatgcagcag cagcaacaac acaaaggca 180  
 acaagcaact gagggatcct cctcaccttc cttagaagag ttagtgagga aaatgaccat 240  
 ccagaatatg ccaatttagc aagagacaag agccttcatt cagagtctga caaataagat 300  
 ggggcagatg gctactc 317

<210> 13135  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 13135

agcttagcca aatgcacgtc attttaattc atatataatg ttcattgcat agtcttcac 60  
 cagggctggg cttgcgtgcc attagagtca atgcaactat tagaataagc caatttaagt 120  
 agtgacatta tgtaactac aagattcatt tgactattaa aataacattg attaattctt 180  
 aggtgtttgc tcacatgtag tagttgtgca ataatatctt attagaatta gtagctaata 240  
 attagattat tgacatgaag aaaatagatc ttaattagat gtattgtaag atttggacgg 300  
 tccaatatga tatatctaga cgatataaaa tactcataat tttgatgata atagaaatat 360  
 aaattatcga tggactaatg ctttatataa agtgaaatag aacataactg gtacaaaactc 420  
 aaat 424

<210> 13136  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 13136

agctttatgg tttcttggat ggctactcat tgttaaata gataagacca agaaaaaacc 60  
 actttttacat gcccctttgg tgtctttgct tacaaaagga tatcgtttgg gttatgtaat 120  
 gtccctgcca cctttcagag atgtatgcta gccattttgt tgatctggta aaaaaatgca 180  
 tcgatgtggt catggattat ttctttgtct ttggattttc ctttgaccat tgtttatcca 240  
 acttggaatt ggtgtgacca caagatctcg tctcgaggga ttgaagtgga caaggcaaaa 300  
 attgatatta ttgagaagtt gcctccactt atgaatgtga aaggcatcca aagttttctc 360  
 atacatgccc gacttctatc ggaggttcat aaa 393

<210> 13137  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13137

tcttacatag tccgcctttg ctagaccttc ttaatgctta ttaacataaa cattagggcat 60  
 aggcacaaag atcaagagga gttattgggt taaaaccata tacaacttct aaaggagAAC 120  
 aattagtggg gctatgaaca gctctattgt aagaaaattc aacatggggg aaacaagctt 180  
 cccaagtttt taagttcttc ctcaaaactg tctaagcaa agttcccaaa gtcctattaa 240  
 caacttcctg ttgcccatcg gtttgtgggt gacaagtggg tgaaaataac aatttagtgc 300  
 ccaacttgct ccacaaagtc ctccaaagat ggcttaggaa cctagagtcc ctatcactaa 360  
 caatgctcct tggcanacca tggagtctca caatctcctt gaaaacaaat cagccacatg 420  
 ggaagcatta tc 432

<210> 13138  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 13138

tgctgcatgc aagctttgag catattcaaa cgtattatta ctttgactcg gatgtcccg 60  
 tcgtgtcccg taatatatcg agacactctt aattggaaac agaagctctg atgcaattca 120  
 aacgactata actttttaca cggatgtccg attgagttcc gtaatatatc gagacgctat 180  
 taattgaaaa cagaagctct gatcatattc atacggacca tactttttac tcggtgttct 240  
 attgtgtact gaaaatatcg agacgctcgc aatcgataa 279

<210> 13139  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13139

ctgcaagctt acaataggaa tntcagctgt ctacagttat taagaatact aactaaactt 60  
 cagttaagcc aattttaact gtgttttact atttaagtcc tagtttaciaa tttctcttat 120  
 tctttntctt tcaattactt gttttgaaag caatcatctg aattttctct atcttgtata 180  
 atgataagaa ccttgggaga tctacaccac aaaagcgagt cattgtagtt tggagagcta 240  
 acagtcttat acatcctana ctccaatgt gagattcaag tctcatacct tgcaattgga 300  
 tctaacatt ccattctgct tcgcagcccc atgcccacat gggcaggctg tgcactaacc 360  
 ctttaactag tccttagcan aaactacaat gccagcatca ccacacatgc c 411

<210> 13140  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13140

acgaccataa ctgttgactc gaatgtatga tcgatgccga ttatatatcg agacactcaa 60  
 aattgaaaaa cagaagctca cgagaaattc anatgggtat aactttttcac tcggatgtct 120  
 gattcacgcg cataatatat cgagaccctc tanattgaac aggggaagctc tcggcaaatac 180  
 caaacgacca taacatttga ctggaatgta tcatcgacgc ccacgatatt tcgagacgct 240  
 caaaattgaa taacggaagc tcttgagaaa ttcatatggc tataactttt cactcgaatg 300  
 tccgattcac acgcataaga tatctagacc cttgaattga gcatggaagc tcttggaat 360



tcaaacgaat ataacttttg acttaatgta tgat

394

<210> 13141  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 13141

gacactatga aactcaacta tgctgcaata tttaaatag acctcctcaa cctcatcatt 60  
taaatacaacc acagcagagc aattatgacc tctctagcaa cagatacaac cctggatgga 120  
ggaatcacc ctaacctcaga tgggtccagcc ctcagcaaca acaacagcag cctgctcctt 180  
ccttccaaaa tgttgttggc ccaagcagac catacattcc tccaccaatc caacaacagc 240  
aacaaccctt gaaacagcca acagttttag gccacattat ttccaataag ggtattgaag 300  
tagatcctgc aaaaatttct gttatttcac aattgcctta cccctcctgt gtgcgagagg 360  
tgtgatcatt tcttgggtcat 380

<210> 13142  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13142

gcttctccaa acaatagtat cgtctgcata ttggagaata ttatcatgca ctttattctt 60  
ccccactaca gagctttgga agcaattata gctgattgct acctcatca tacctgtcaa 120  
accttcagca accaggtcaa aaacgagtgg ggccaaaagg tccacttgtc tcaagcctct 180  
ctgaggctta aactctgacg ctgggcttac attagcaatg actgacacag aagctgaagt 240  
aatgcacccc ttgatccagc taatccatct ctcattaaag cccattcttc tcaacatata 300  
gaataggaac tgccatgaca catagtcata ngccttttca agacaacttt aaagaccata 360  
catgacctgt tggacctact tgctcctcc actacctcat tagcaaccaa agccccatac 420  
aacagctttc ta 432

<210> 13143  
<211> 268  
<212> DNA  
<213> Glycine max

<400> 13143

tttattgacc tgtgagccag tatcaatgtg atgtcactct ctatgtgcag aagattggga 60  
gagttggaaa taatgccac ttgaatgact atacaattag ctgacagctc cattaccagg 120  
tcatatagag taattgaaga tgttgtggtc agagtaaaac attttatctt ctgacagac 180  
tatgtggtaa tggatatctc tgaagatact gacatccctg taatattgtg aaggccattc 240  
atgctgattg gaggctgcat agttgata 268

<210> 13144

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13144

gatgaatgaa gggagaggaa gagaaagtct cttaatttgt gctntaaaag agctctaaaa 60  
tctgaagatt aattttcaaa tgatcaaagn tggaaaaatg cacacacata gcctctatctt 120  
atagcctaag tgtcatataa aattggagga aaatttgaat atctattcaa atttcacttt 180  
aatttgaaat tgaatttgtg gagccgtatt ttggagccaa aatttcacta attatgatta 240  
gtgaatttca gatatggttc agcccatata tccaagatca agtccaagat tctccactaa 300  
gtgtgcttag gtgtcatgaa gcatgtaaag catgaatgac atgcacaaag tgtgactata 360  
tgatgtggca atggggtgta gcaagaaaat ggctcacctc ccctctaaaa ttaattggat 420  
gggcttcacc attcaattaa ttatt 445

<210> 13145

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13145

agctntaaga aaatttgcaa catcgttntg gttatttaac aagaacattc tatttcttga 60  
cattggtacc ttggtaatta tattatttct cccatctctg atggaaagac tggaatcttt 120  
catgtgaata tcatagcctt ttttgagtaa ttgtcccaa ctcaaaatat tgttcttcat 180  
atttgggacg tagtagacat ttgatatgaa ttcatgtctt gcacccctca natggattat 240

gatcttacct tttntccttt ataggaatat tggaattatt accaaattag gcattgccac 300  
 ttactgactc atcaagatcc acgaacatgc ttctttttcc acacatatgg ttgcttgac 360  
 cagtctccan gtaccatgtn gtttcttggg tacctatatt acctccatgt gctangagaa 420  
 ctgtttcann acttccatct ttttgctcca catagttagt ct 462

<210> 13146  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13146

agctngaagg caaactggat gcattgggta acttggttaac ccagctggcc ttgaaccaga 60  
 aattgtacct gtcgcaaggg tctgtgtttt gtgctcctct gctgaccacc atacagacct 120  
 ttgcccttcc atgcagcaac ccggagcaat ggagtagccc gaagcttatg ctgcaaacad 180  
 ttacaataga cctccttaac ctcagcagca aaatcaacca caacagaaca attatgacct 240  
 ctctagcaaa agatacaacc ctggatggag gaatcacct aatctcagat ggtctagccc 300  
 tcagcaacaa caacagcagc ctgctccttc cttccaaaat gctactggcc caagtagacc 360  
 atacattcct ccaccaatcc aacaacaaca aca 393

<210> 13147  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13147

tatactctnn cttcatnata tacgatatag atgttaagtt gacgtatccg catcttcata 60  
 atagagatgt ctctaaaata atacaaaatt aattttaaaa tatataaaat tagaaattcc 120  
 caaattaaat tgtagctaga aatagttatt atctataaat aattgtatta tttattaaga 180  
 gtgtgtgaat tattataaat tataccgcag acgtatatga tttttacgaa taaaaaatta 240  
 agtatatttc ttatgatatg atcttatctc ttaatttact ctcattaata gagtgggata 300  
 tattgttctt cattaatctt aacattttaa ttcqaaactt ttaccaacaa ctatttatgc 360  
 actccaaaat cctatctata ttcaatcggg atatatttac tctatgctca ttcatttcta 420

tat

423

<210> 13148  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13148

tgcaagcttc aagaaaaaga tggcctcaac aaacttctta tttccagtaa ggaattctat 60  
taatagacct ccaatcttta atggagaggg ttaccattac tggaaaaccc gaatgcaaata 120  
ttttattgag gcaatagacc taaatatttg ggaagccata gaaatagggc cttatatacc 180  
caccacagta gaaagaatta caatagatgg cagttcatca agtgaaagta taactataga 240  
aaaacctaga gatagatgtt ctgaagagga tagaaaacga gtacaatata atttaaaagc 300  
caaaaacata ataacatctg ccctgngaag ggatgatata ttcagggttt caaattgttaa 360  
gagtgtctaac gaaatgtggg acactcttcg attaacacat gaaggaacta catatgttaa 420  
aagatctang ataaatgcac taactcatga gtatgaatta tntagaatga atg 473

<210> 13149  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 13149

agcttccaac catagagctt gttaggctgc tatatcaaca acaatatatt ctacttcaca 60  
tggtgacaaa gcaactacac tctgcttctt tgagcaccaa gagattgggtg atgttccata 120  
tttgaaaaca taaccagtag tgcttttctt atcatcctta tcaccacacc aatctgaatc 180  
actataacca aacacttctc cttctatttc ttgtgactga aaggatataa aatgccaaca 240  
tccaatgttc ctatcacata tctcagaatc ctctttgctg ccaagaaatg aggtgtcttt 300  
ggtttctcca taaacctgct tatcaatata acacaatatg caattatatg tttggtgtac 360  
atatgaacca taattgacct acatattggg ggacgagga tgatcaattt gtttctcata 420  
cccat 425

<210> 13150

<211> 469  
 <212> DNA  
 <213> Glycine max

<400> 13150

tataagcttg cgtcagattt gaatgctgca atgaagatga tatacatgta ttctactttg 60  
 cctgcccttg gaaattgcta aaagtatgaa ggcgtgtgga gaaagcatgc gagagaacat 120  
 tattgctgca agaatcttgc gatccatgat tctgaaattt aactatgttg tgtgctcgat 180  
 tgaagaatcc aataatttgg atactatgac aatcgatgaa ctgcagagta gtcttttagt 240  
 tcataagtaa aggatggtgt gttatgaaga ggagtgcaca gcaccgtata ttacgcatga 300  
 agatagggga tgaagaggac gaggatgatg aaaaccacga cgaatagggt tttccgtcgt 360  
 agaggaagac ggagacagtc aatcaacaaa gttgatattg aatgcttcaa gtgtcacaaa 420  
 catggacatt gtcaatatga atgtctacct gggaataaaa taaatatgc 469

<210> 13151  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13151

tgtgcattca atatcctgat gaggggtgttc catatgttct ctagactgga ctaatacatt 60  
 tgctgcccga gtttcatggt cttgcaagtg aagatcctca taagcatctt aaggagttcc 120  
 atattgtttg ttccaccatg aagccccctg atgtccaaga agatcatgtc tntctaaagg 180  
 cttttcttca ttctctagag ggagtggcaa aagattggct atactacctt gctcctaggt 240  
 ccatttntag ctgggatgac ctttaagaagg tgttcttgga gaaattcttc cctgcaacta 300  
 ggaccactgc catcagaaaa gacatttcat gcacaggca acttagtgga gaaagcttgt 360  
 atgagtactg ggaaagattc aagaaattgt gtgcaagctg tcctcaccaa ttgatttct 419

<210> 13152  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 13152

agcttgaagg ataacttgat gccttggaca actctggaac tcagctttcc atgaataaaa 60

aatctacacc tgttgcaagt gtctgtggtc tatgttcttt tgcagatcac catacagatc 120  
tctgtccttc ttacagcaa tctggagtca atgagcaacc tgaagcttat gctgcaaaca 180  
tttataatag acctctcag cagggaacc aacaacagca gaataattat gacttttcga 240  
gcaatagata caatccaggt tggaggaatc atcaaaatct gagatggaca agtcctccac 300  
aacaacaaca gcctgtccct cctttccaga atgctgctgg tccaagcaag ccatatgttc 360  
ctctccgat gcagcagcag tcacaacaaa gacaaca 397

<210> 13153  
<211> 143  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13153

ttgaaatcgc acagcgggaag ctctcgagaa agtcaaattg tcttaacttg tctcacggaa 60  
gtccgattca ggcacatact atctcgagac tcccaaatag aacaacgnaa gctctcgta 120  
tatttaaata gtcataacct ttc 143

<210> 13154  
<211> 380  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13154

gctcagggct tcggtattcc atctcgagcg tctcgatata ttacgggact caatcggaca 60  
tcatagtaaa aagttatagg tgtttgaatt tgctcagagc ttcngtattc catttcgagc 120  
atctcgatat attacgggac tcaatcagac atccgagtat aaagttattg tatgttgaat 180  
ttgctcacgg cttctatatt ccatttcgag cgtctcgatg tattaccgga ctcaatcaga 240  
catccgacta taaatgtatt gtcgtttgaa ttgctcagag ctctacatat catttagctt 300  
ctcattatac ggactcaata taatccgata aaattattgg cttgatttgt agacttcgaa 360  
tcattttagg ttgattatta 380

<210> 13155  
<211> 497

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13155

gcttggtgaa gtaacccggc ttctggtgtg tgcaggtatt ggttntgctg acaaatagtg 60  
tagttgcaaa caaaatcttt agtgtcaaag tacatgtgtt ggatcgagtg gcctcagaat 120  
aattaagaag gaggggttta attaattatt cctaagcctt tactaattaa aaatttactc 180  
ttctaaggct ttactatgt tgttaagaga ataaggagta gaagagaaac ttaacaaaaa 240  
gtaaaagcgg aaattaaaat gcacagcgga aagtaaaaga gtagggaaga aggagacaaa 300  
catacaagag tttttatact gggtcggcaa caactcgtgc ctacatccag tccccaaagcg 360  
acctgcggtc cttgagatct ctttcaacct tgtaaaaatc cttttacaag caaagatcca 420  
caanggatgt accctccctt tgtctctttg aacctagtgg atgtaccctc cactagaact 480  
gatccacaag agatgta 497

<210> 13156  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13156

gcttttgcag ttggaatcat ttatcctatc tccgacagcc aacaggtgag tcccatctag 60  
gtagttccga agaaaatcgg cctcaccgtg atcaanaatg agaaggagga gctgattcct 120  
actcgggtgc agaacagttg gagagtctgc attgactata ggaggctgaa ccaagttacc 180  
aaaaaggacc attttccctt gccattcatt gaacagatgc ttgaacgcct gacaggtaaa 240  
tctcactact gtttccttga cagtttttct gggttatatgc aaatcactat tgctcctaag 300  
gatcaggaaa ataccacatt cacctggcct ttcggcactt ttgcccatag aaggatgact 360  
ntcggcctgt gcaatgcccc tgggtactctt tttgcggtgc atgaatcaat atttcagtga 420  
tt 422

<210> 13157  
<211> 389  
<212> DNA  
<213> Glycine max

[illegible]

<210>	13158
<211>	263
<212>	DNA
<213>	Glycine max

actctctaga aattcanatg gtcataactt ttcacacgga tgtccgatcg ggcgcataat	60
atgtcgagag gctcgaaatt gaacaacgga agctcttgag aaattcaaat ggtcataact	120
tttcacacgg atgtccgatt caggagcatc acatattgag acgctcgaaa ttcaaattggg	180
gataactttt caaacagatg atggacttaa gcttatacta tgatgataca ctcgagcgca	240
aacatcgtag actctctcga aat	263

<210>	13159
<211>	300
<212>	DNA
<213>	Glycine max

cgtgctctgc	nactattggt	agtcgcggt	atacgagaca	tctttgccaa	caaagatagt	60
tagccataac	ttgcctttgc	tttttcttcc	atgctatatg	tagcaaagtc	attgatcctg	120
tcaagtttga	tgagctggaa	aatgaggccg	caattatact	gtgccagggtg	gagatgtatt	180
ttcccccttg	tttctttgac	atcatgattc	acttgattgt	gcctctgggtc	agagaaatca	240



aatgttatgg tectgcttat ctatggagga tatacccggc tgagcgatac atgaagatct 300

<210> 13160  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<400> 13160

gatttgagag ctgtgaagaa tggcttaggc agattttgga aggcctttta tatcttcaca 60  
 gtcacaatcc accggttatt caccgaaacc ttaattgcaa taacattttt gtcaatggga 120  
 atcaagggga ggtgaaaatt ggtgatttaa gattggcggc tatccttcaa caggccaatt 180  
 cagctcacag tgtcataggt aacgtttcct gagaaatatt acatttattt tacccttttt 240  
 tat 243

<210> 13161  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13161

agcttgtaat cgattacaca catactgnta tcgattacca gaggagattt tcagaagata 60  
 ttctcaacag tcacatcttt ctgtgtggtt cttgaatggc tatcaaaggc ctatatatat 120  
 gtgacttgag acacgaattt gaaaagagtg tttcaaaaca aaaagggtctt atcctcttat 180  
 aaagcaaaat cgttttatcc tcttaciaat tccttggcca aattacttgt gattcaataa 240  
 ggaattattt gagtgtctcaa attgttcaat ctatctcttt caagagagat ttcttctttt 300  
 cttcttcttt attctgaaaa gggattaaga gaccgatggt ctcttggtgt gaaagaattg 360  
 tcaacacaaa ggaagggttg tccttggtgt 390

<210> 13162  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13162

gctttgagca aattcaaacg acaataactn ttatctcggg tgtccgattg tgtcccgtag 60

tatatcgaga cgctcgaaat tgacaacaga agctcaaagc acattcgaac ggcaataact 120  
 ttttactcag atgtccgatt gagtcccagt atatatcgag acgctcgtaa ttgaaaacag 180  
 aagctctcag caaattcaca cgacaataac tatntactcg gatgtccgat tgagtncgt 240  
 aatatatcga gacgctcgta attgataaca gaagctctga gcaaattcaa acgacaataa 300  
 ctctttactc ggatgttcga ctgagttccg taatatatct agacgctcg 349

<210> 13163  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13163

atggaagctc ctaatatctc ccacactnnt ttgggtgggc cattcttga tggccttgat 60  
 tttctcaggg tccacttga cccatttct accaactaca aaccctaaga aaactatatt 120  
 atctacacaa aaaagtacac ttctctatat ttgcatagag ggtgtttttc ctaaggactg 180  
 aaagaacttg cctaagatgt cctaagtgat catctaggct cctactgtac actaaaatat 240  
 catcaaaaata aacaactaca aatctaccta tgaaatccct taagacatga tgcataagcc 300  
 tcataaaggt gcttggtgca ttagtgagcc cgaaaggcat cactagccat tcatacaaac 360  
 caaacttggc cttgagagcc gggtttccact catcacctt tttcatcctg atgtggtgat 420  
 acccact 427

<210> 13164  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<400> 13164

tgcagcatgc aagctgttgg tgctcaagcc tacttctctt ctttgagtga atctataata 60  
 atttaaaaaa catgaatggt agttacttag tttcaatttc agcttctaata gtttcataat 120  
 caaattaaaa atgttcactt tcatataata ctatagatta agtgattaac ttacatgctc 180  
 aaaggctact caattacgct cacatcctga tgagctacag gtcaaactta aaattttaat 240  
 ggcaatgggt tgcaagtgtg gtgttttccc tccacacaat ttccaccact caactggtaa 300  
 atgcaattca tatgcattag catgtacaca gattattaat taatcattca aatttataag 360

tgaactttcc cacttactag gagatatctc agtccttgct ttcattgcta caatcatacc 420  
 aaacctctct ctagctctat tatacactag caattgttgt gaacatcatt acaaaatata 480  
 atcttactaa gccatcatac attg 504

<210> 13165  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13165

acttaatcca gataagtatg aaaaagtgtt ttcaaaaact agtagcacat ggattnttct 60  
 caaaatctat ttaccaaaga ttttttactc tctagtaata gattaccaga ttattgtaat 120  
 cgattaccaa tagaaaaaat ggttttcaaa aagctttcaa ctgaatttac aacgctccaa 180  
 ttgatttcaa aatgttgtaa tgcattacaa tgttttggta atcgattacc tgtgtgcttg 240  
 aacgttgaaa ttcaaattca aatgtgaaga gtcacattct ttcacaaaaa agctttgtgt 300  
 aattgattac actattttgg taatcgatta ctagtgaaag nttctgaaca natcanaata 360  
 tgtaactctt caaatagttt ttgactttta cacattgctc ttaagttaa taaaagtcac 420  
 aactcttcta atg 433

<210> 13166  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13166

gagactaaga aattnctaata gaatatattt gatatgaaag atcttgggga agcctctttt 60  
 gtattaggaa tcaagatcta agagatcgct ctcaagatat cctaagggttg tcacaagaga 120  
 gttatgtcta taaggctcta gacagattcg gcatgaaaga tagtaaacca ggagataccc 180  
 cgatagctaa aggagacaaa tttagtctca aacaatgcc taataatgac cttgaaagaa 240  
 tagagatgca aaagattcct tatgcatcag cagtaggaag tctaattgac actcaagttt 300  
 gcactcgtct cgatataaca tatgtagtag gagtcctggg caaatatttg agtaatcctg 360  
 gaatgctgca ttgaaaagca gcanaacgtg tgatgcgtta cctacagaga ataaaaggat 420

acatgctcac ttatcaaaat tctgggaata tggagatca

459

<210> 13167  
<211> 347  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13167

cttgagcana ttcaaacgac aataacgttt tactcttatg tctgattgag tcccgtaata 60  
tattcgagacg ctcgaaattg aataccaagc tctgagcaaa ttcaaacgac aataactttt 120  
tactcgaatg tccgattgag tcccgtaata tctcgaaacg ctcgaaattg aatgttgaag 180  
ctctgagcat attcaaacga caataactgt ttactcggat gtctgattga gtcccgtaat 240  
gtatcaaaac gctcgatatt gaatgttgaa gctctgagca cattcaaacg acaacaagtt 300  
tttactcgga tgttcgattg agtcccgtaa tatatcgaaa cgctcga 347

<210> 13168  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13168

agcaagaaat tatgtgcata tatagctaca aacgtcttgg aattgatata tacagatatt 60  
ngtggggccat ttcatacacc ttcattggaat ggtcaacaat attttatatc attcatagac 120  
gattactcca gatatgcata cttgtttctt atacatgaca agtcacaatc tttggatgtg 180  
ttcaaaatat ttaaagttga agttgaaaat caacttaaca aaaagaataa aatgtgtcag 240  
atttgaccgt gatggtgaat attatgacag atatgacggt tcaggtgaac aacattcggg 300  
accttgtgcc aggtacctag aggaatgtgg aatcgtccca cagtacacca tgccanggtc 360  
acctagcatg aat 373

<210> 13169  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13169

aaaagcaatg ggcaatgggt atagaaagat tgtgaanaaa aattgtttgg aagaatatta 60  
tacatatata ttaacatgtg ccaaagtcac gcttttatag actcttcatg tctagtcaaa 120  
gaaaccattg gaagagttgt gacttttagag aaaaccatgt taagagttat aactcttaac 180  
tttttcttca aaattgttca ctggtagtcg attaccacaa aggcgtaatc gattacacaa 240  
tgagttttat gaaaaattgt gactcttcac aattgggatt gaattccaac gttcagattc 300  
acttgtaatc aattactaat attgtgtaat cgattacact atntgaaaat cattttggaa 360  
cgttgcaacc catctgaaaa ccatttgaaa accaaactgg taactggtaa tccattactg 420  
ataactagta atcgattact agagagtaat ca 452

<210> 13170

<211> 457

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13170

gcaagctnga tcttnntagt ttntatcttt aatctttaat cctgaacga actattcaag 60  
tggggggagtg cgaactttaa ttatctttta ctctgcgcct aaagagggag cgccaaatat 120  
agataatata ctgctcgta atctgggaaa gatataacag atttatgtgt ccagtatttt 180  
cgggcaagat gtcctgcaca tcgtatccga catcgtggat cctgcagctt caattcttca 240  
tttgacattt tatcttgctt tgtgcattgt gcatcccaat ctgattcctt gacataacgt 300  
aggacatcat gtgcagcaac tccagctttc cttcattatc taagagctta tgttgtaaca 360  
anatttttagc caatctttta gaactcagta aagctaagca ctaacattcc gtgttcaaata 420  
acgagcgtct cgctatccta cgggacacca tcggaca 457

<210> 13171

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13171

tctcagcttc acatcagacc acttcaggtg ctggaactac ttccatggac ttgatggggc 60

ctatgcaagt tgaaagcctt gaggaagag gtatgcctat gttgttgtgg atgatttctc 120  
 caaatttacc tgcgtcaact ttatcagaga gaaatcagac acctttgaag tattcaagga 180  
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatca ggagtgaacca 240  
 tggcagagag tntgaaaaca gcaagtttac tgaattctgc acatctgaag gcatcactca 300  
 tgagtctctc gcagccatta caccacaaca aaatggcata gttgaaagga aaaacatgac 360  
 tctgcaagaa gctgctangg tcatgcttca tgccaaagaa cttccctata atctctgggc 420  
 tgaagccatg aacacagcat gc 442

<210> 13172  
 <211> 384  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13172

ccaccatctn ttcatagtag aatatcggtg atgtgtctac tatcattatc attttttctc 60  
 cgccattgag gtgccacttg agctgccagg tctctccacc tttgggcgta ttctttgaaa 120  
 gatctgtgcc cctttatgca catgttctgt agttgcatcc tatccggaac catatcaaaa 180  
 ttgtactgat actgcctaac aaaggcaacc attatgtcct tccaagaatg gactcgggaa 240  
 gggtccaagt tagtgtacca ggttacagct accctagtaa gactttcatg gaaggaatgt 300  
 atcagcaatt cctcatcttt tgcgtattcc cccatcttct gacaatacat ctntagatgg 360  
 ntcttgtgac aagtagtccc ctg 384

<210> 13173  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <400> 13173

tgagcacatt caaacgacga ataactttga ctggaatgtc cgattgtgtc ccgatgata 60  
 tcgagacgct cgtaattgaa aacggaagct ctatgaaaat ctaacgacaa taacttttaa 120  
 ctcggtgtgc tgatcgagcc ctgtaataata tcaagacact cgcaatttaa aacagaagtt 180  
 ctgagcatat tcaaacgaca ataacttttg atactgatgt ccgattgagt cccgtaagat 240  
 atcgagacgc tcataattga aaactaaagc tctgagcaaa ttgaaacgac aataactttt 300

gactcgtatg tccgattgtg tcccgaagga tatcgagacg ctcgtaattg aaaacggacg 360  
ctctgaggaa aatctaacga caataacttt taactctgat gtccgattga gctcctgaat 420  
atatcgagac gctcgttaatt gataacag 448

<210> 13174  
<211> 465  
<212> DNA  
<213> Glycine max

<400> 13174

tatgtctggg cgagtacaga tctgagcata cattatactc ctagcaacta atgcatacaa 60  
aattgcttcc atttgttttc attccaatta tttctaggac attgtgtgag actaaatttg 120  
tctcatttct gaattggaac gagtaatgct gagcactttt ccatcctaaa tctttctagt 180  
actttattga tatatgtttt ttgagataag cctaacaatt cttgtgatct atttcagaat 240  
atttctatcc ctatcacata gtttccctca cccttatect tcatttcaaa gttactagaa 300  
agaaacttag tctcatgaag aagaccaaga tcattagtgt caaggaatgt atcatcaaca 360  
tataggatta caaaaataac cttactccca ctgaacttca gatataatac ccgatcaaca 420  
atatttttct taaatccaaa ggaaacaatg gtatcattaa actta 465

<210> 13175  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 13175

cccgagagct atcgttgatc attttcgagg gtcgttatat gtgatgcgcc ttaatctaac 60  
atccgtgtga agagttatga ccatgtgtat ctctctagag cttttgttgt tcaatttcga 120  
gcctctcgac attatttgcg cccgaatcgg atattcgcgc gaaaatttat ggccatgtga 180  
atttctctag agtttctgat gttctattat gagcgtatct atatattata agccagaatc 240  
ggacatccgc gtgaaaacgt atgaccattt gaacttctcc agagctctcc gtgatcaatt 300  
tcgagcctct cgacatatca ttccgcccga atcgcacatt cg 342

<210> 13176  
<211> 305

<212> DNA  
 <213> Glycine max  
 <400> 13176

gtctcgaaaa cttgatagga cctaaagaga gttgcttctt tggactgata ttcgtttgca 60  
 actcgtccct atactagttg taagtcgcta taacacctga gcattcttgc tcccacttcc 120  
 tttgtcactt ttacgcctgc tatgactgct tcatattcag ccagggttatt tgatgcttta 180  
 aaatcctagg gcttgcctcg acgaacctta ttgggtcctt ctaggatgat gcttgcctct 240  
 cttgctttca tattggatgc actatttaca ttagagccca ctagtcaagg gtggcttgga 300  
 catta 305

<210> 13177  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13177

gatgaaccag gtntcacact tgcgcaatct ttcctgaac tccttctccg ttgcaacaac 60  
 atccttctac ctcttcaccg ccacactcgc ccccatctcc atcgtcgcct tataagtcgt 120  
 tccaaagggtg cttttccacc aaacttcaac tgatgccctc aacaactcat ccaaactaaa 180  
 tactctactc acattcccaa taaacaccaa actcttatta tctccaccac caccactgct 240  
 actctgaacc tcactcttct ccactgaacc tgaattcccg ccactctcat tactcttctc 300  
 acgagacact acttcacctt ccacgacaca cttctcaggt ggcaagattc attctcatct 360  
 tcttg 365

<210> 13178  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13178

cttgaatctc agctgtggag tcatacacat tctccaccct gtgatagtc gtgtagggat 60  
 gagttcattc ttctcattat ggatcattgt cataccgcct ttctgggcat cacttgga 120  
 agactcacc cagcactgtc agagatcgga tagataagtc ttgcttcaag caacttgagg 180



acttctttttt ggacttcctc cttcatggat gggttaagtc tectttgtga ttgtttcccc 240  
 agtctataat cagctttcat catgattnta tgcattgcagt aggatgggct aatccccctta 300  
 agatcgaaga tatgccatcc tattgctacc ttatacttct tgagtacctc cactaactgt 360  
 gcttccttag ctgaagacaa gtcattactg atgactactg gcttggcatc atttgctca 420  
 agaaaaacat acttc 435

<210> 13179  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<400> 13179

actggatgca ttggttaact tggttaacca tctggccttg aaccagaaat ctgtacctgt 60  
 tgcaagggtc tgtggtttgt gctcctctgc tgaccaccat acagaccttt gcccttccat 120  
 gcagcaacct ggagcaattg agcagcccga atcttatgct gctaataattt acaatagacc 180  
 tctcaacct cagcagcaaa atcaaccaca gcagaacaat tatgacctct ccagcaacag 240  
 atacaacct agatggagga atcacccctaa tctcagaggg tctagccctc agcaacaaca 300  
 acaacagcct gctccttctt tccaaaatgc tgctggccca agcagaccat acattcctcc 360  
 accaatccaa caacagcaac agccccagaa acagccaaca gttgaggctc ctccacaacc 420  
 ttccctcaaa gaacttgtga ggcaaattac tatgcagaac atg 463

<210> 13180  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<400> 13180

tgtaggcta tactcgataa atatgtctgg ctctactctt ttgccaaactt gtctcgctta 60  
 acctgtggta catttgtaaa cacaacaac cgaaaacttt tagatttttt aattgtggct 120  
 taaagccata ccaagcctca aaaggagtct tcccatcaac tgcttttgtg ggaagtctgc 180  
 tcaacaaaaa tacaacagta ttggttgcct cggcccaata ttctttggga aattccttct 240  
 catgaagcag atatctagcc ctccattatg gttctatttt tccgctcact gacccccattt 300  
 tgctttggag tgtatgggtg tgtaagttga tgctcaattc caacctcctc acagaattta 360

tcaaattcat ttaaggtgta ttccttgcg ttatatgacc tcaaaactcg aattctaaag 420  
ccactttgat tctcaatcca gttcttgaat ttgaagaaca cacctgcaac cgct 474

<210> 13181  
<211> 396  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13181

tgcgccactt gaaaagcctc tnttgaatgg tgactctaatt gttatcaaca attatgttcc 60  
cattaaggct agaggaaatg aaaattaacc tggatttcaa atgttggatt tttcagcatt 120  
cttactttct catggatgat tcctttaata actctaggga atgagaagac tttagagcat 180  
gaggatctcc cacatcttgc tactgatgac agtgtggatg ggaatttgcc aacttttaca 240  
aacaaacttg agtcagagtg tggtaatgtg ataacaaccc tactctagtt tcataacaac 300  
cctacganaa tatgatgtna ctgctcacat gaacaacact acactagtgt gataacaacc 360  
cttgctacac tatgcaaaca accctgcttc aatgta 396

<210> 13182  
<211> 375  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13182

tggagtccat gccgtcacgt ttggactctt tgagtgcacat gttacaagct gtgaatcccg 60  
gtgatcatgc agtaagttaa ctgtactgct tggctttctt gaatcctccg tgctactaag 120  
taaaataatt aaatgtttgg tttttatgct ttgtaggctg taaaagacga agttattatt 180  
gatcttggtg accgctgtcg cacaaaccag aaaaaattga tgcagatgct aacaactact 240  
gggttagttc cactcagcta ttccatctgg cacacacca aatgtacttg tgtgttacct 300  
tgtgaaggct atccactgat atgtggaatg atcttattgt cttggttntg tcagatggat 360  
gacgagcttc ttgga 375

<210> 13183  
<211> 430

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13183

ctacttcaca tggatttgat ggggcctatg canngtgaaa gccttggagg aaagaggtat 60  
 gctatgttgt tgtggatgat ttctccagat ntacctgggt caactttatc agagagaaat 120  
 cagaaacctt tgaagtattc aaagagttaa gtctaagact tcaaagagaa aaagactgtg 180  
 tcatcaagag aatcaggagt gaccatggca gagagtttga aaacagcagg ttactgaat 240  
 tctgcacatc tgaaggcatc actcatgagt tctctgcagc cattacacca caacagaatg 300  
 gcacagttga aaggaaaaac aggactttgc aagaggctgc tanggtcatg cttcatgcc 360  
 aagaacttcc cttatatctc tgggctgaag ccatgaacac agcatgctac atccacaaca 420  
 gagtcacact 430

<210> 13184  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <400> 13184

tactcctcat gcttctcacc atgtctaatt aagttctatt tcttcgttct gccacactat 60  
 tatgatctgg agaactagca tagtgtattg gacaacaatc ccatgttctt gaagaaattt 120  
 cgcacatgaa cctggtgctt gtccatcctc tgtgtatcta ccataatact cccacctct 180  
 atctgatctc acgatcttaa tttgttttcc acattgtttc tcaacttcag cttataaac 240  
 tttaaaggca tctaaagctt cattcttaga atgaagtaag tcaagataca tatatcgtga 300  
 ataatcatct ataaaggtta tgaagtattt cggacaatat gcattcatgt ctggacaaca 360  
 tatgtctgca tgtatgatat ct 382

<210> 13185  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13185

agcttcacac aatggttcat cacttttctg atggaagctc aatatanttg tcttagcctg 60

gtttcttttt tctctttgga agaaacagtc taaaaacttg tttccaatgt cactccaagt 120  
gataaggctc tgagatggat gagtattgag tcacttcaag gcattatctc ctatgacgga 180  
aaaatggaaa accatcatat agagattctc ctcttcagtt tgggtcaccc ctggtgtacc 240  
acattgatca taaaatgtgg ccagatgggt .gtatgggtct tcattaccta agctaggaaa 300  
tgcattgttg gcaaggaaag tgattangcc taactttagc ctttgttggtg tgggtgttg 360  
tcttgggtct agcaatgttg aagtatactc gtgaaccatt atcagtgtca tgggtccgaa 420  
gagttctcct aacaagtgat gcttcttcta cttcctcata tgtact 466

<210> 13186  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13186

agcttatgag aattattcac aattaaagaa tgaggaatgc caatatcaat tgcaccatta 60  
ttgtaattac caactggacc atcacccaaa gaaagaattc aatatgaata tattatcttt 120  
tcactttcat ccacatcatt taaaccactt ttcaaacgca tgttttgagt taatttcaaa 180  
gttttacaac atttttcata attgagaaga gttaatgggtg gccaaaataa tttcaacttt 240  
acttgcatta ngcacacaac acaaaatttg tttgaaatca ccattgagaa tgacaacttt 300  
ttcaccaaaa gttttatgca aactattgtc aatagtaaaa cacataatat ctcttaatgt 360  
tctatcaaga gtttcaaag canatctact aaccatagct gtttcattcc atatgatcaa 420  
aggtagtgtg gttcaacaat tctac 445

<210> 13187  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13187

tctgtnttca atttcgagcg tctcgatatt ntacagagct ctatccgaca tccgaggtaa 60  
acgttattgt cgtttgattt tctaagagct tcccttttca attacaagcg tcttgatata 120  
ttacgggaca caatcggaca cccgaggttaa agttattgt cgtttgaata tgctcagagc 180

ttctattttc aattacgagc gtctcgatat attacgggac tcaatcggac atccgagcaa 240  
 aaatatattg tcgtttgagt tttctcagag cttcggtttt caattacgag cgtctcgatg 300  
 tactacgata cacaatcggg catccgagtt aaaagttatt gtcgt 345

<210> 13188  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13188

agtattttatc tactccaatt aacaagtcaa gtcaaacttg tcaggttcca aacaccaaaa 60  
 taaaggacat tctgagaatt aatttggaac ctttaacatc acaccctaag caagaatcat 120  
 attcatacgg atagacccaaa tgccttatta tgaaatTTTT gttgtttgct tattgtatta 180  
 ataactaata aatcaatttg gtgaaattaa ttttaagggtga attctgtagt taataacttcg 240  
 cttcaaaactt atacatccta actttttacca cacatcatca gtattggtag tattctcttt 300  
 ttaccacaaa ttgaaacatc acttgtactt ttatgttggt cataagtgcg gggggatgct 360  
 atccatgacc ataagcaatg gagaagttgg ttgcttcatg atctcataan aactccacca 420  
 aactggtac a 431

<210> 13189  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13189

ntgcttccat ttccgtcgag cagaaagctt ctgctgaaca tggatgcttt ccttttcatt 60  
 gttgtcactt tcgtgttagc ttccaaactc attntgctca aggaagtga ctacctcgta 120  
 ccacaagcag ttcaaaaaca tatattatcc atgtgaaggg gccacaggat aagtcactag 180  
 atcaaacaga agatttgagg agctgggtacc attcattcat gccacctact attatgagct 240  
 ctgaggaaca gcctcgaatg aattattcat acctcaatgt gatgagtggg tctgctgcaa 300  
 gactcactga agaagagtcg atagctgtgg aaaaaaatga tggcttcatt tctgctcggt 360  
 ccgaaaagat actgcatcgc caaaccacaa atacccc 397

<210> 13190  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 13190

atgtcaaaac aacctttccc atggataatt ggaggaagac atcttgatgc aacaacctga 60  
 atgtttttgaa atggaatgga agaaataata tgtatgtacg ttgaaaaggt ttatatatgg 120  
 gttgaaacaa tctccaagga agtggtacca gagattcgat gagttcatta ttactcatgg 180  
 gtacaacaga agtgcctatg attcatgtat ctattatagt aagggtggggg atggttttcg 240  
 catctatgtg ctactctatg tggatgacat gctcatagca tctcaagaca agtctgaaat 300  
 tcataatttg aagtcactac ttagtaataa attttagatg atagata 347

<210> 13191  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13191

gcttctcgat atattatgcg ccataatcgt acttccattt gagaagttat gaccatgtga 60  
 atntctcgag agcttccgct gttcaatttc gagcgtctcg atatattatg cgctgaatc 120  
 agactttcgt gtgataagtt atgaccattt gaatatctcg agagcttccg ttgttcaatt 180  
 tcaagcttct cgatatatta tgcacctgaa tcggacttcc gtttgaaaag ttatgaccat 240  
 ttgaatttct cgagagcttt cgttggttcaa ttatgagctt ctcgatatac tatgcgccag 300  
 aatcggaacct ccgtgtgata agttatgaca atatgaattt ctcgagagct tccgttggtc 360  
 aatatctagc ttctcgatat attctgcgcc tgaatcggaac ttccngtga gtagttatga 420  
 ccatttgaat attcgagagc ttcgttggtt 449

<210> 13192  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 13192

catttgttat tgatttgctt taccttgtagc gtggctaaac atgtagcct ttgtaagtgg 60  
 ttaaacccttg gggtatgact tctacttaat gggtaaatgt aacattccat aacataaata 120  
 cagatattta ttataaaaat atatataatc gacaagatta gaaaacatgt atatagttca 180  
 cagaagatag aatatctcgt ttatcttcta ttctaaaata tcagtattag cattatattt 240  
 attagataaa taatataata tatctcggtt atgttatcat tatatctagg atgaaatatg 300  
 ataagatgct atcaaaa 317

<210> 13193  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 13193

atgagatccc gttagaacaa ttgtgccact agtcaacaga gttcagtga cctcggttta 60  
 gagagagagc tacatagaat agagtgagaa aattgtttac actgtaatgt gcattgagtc 120  
 attaatattta ttgggtccata gtcttgttta gtgaacgtta tactgcgctt aataaccagc 180  
 cgtcactttg aatttaccct aactgatacc acgctgtggt tgactcagtt actacaggtt 240  
 agtgacagct gttaactgct gtcgataaaa tactagtaca gatctt 286

<210> 13194  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 13194

acatatcttt tcatcacatt cctagagagg aaaatcatat gggtcgtgcc cttgccacac 60  
 tagcatccct gttctagcta agcccgcatg gagatttgct gtatcaaatt caaatgtcgt 120  
 ggaaagcctt acacattgct acttaataga ggaagagaaa aatggtaagc ctttcgtact 180  
 ctgatatcaa atgatacatc gaagacaagg aatactcgca tgaggcctct gacaacaaca 240  
 agagaacgtt gcgaaagttg gcggcagact tctttctgag tggggatatc ctatacaaga 300  
 ggaaccatga cat 313

<210> 13195  
 <211> 465  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13195

ctagatccct cttgtggact aggtcact taaatatctt acgattgttt agcctaant 60  
agcctaagct ttgtcctcat ttggatttct tttgtctctt ccagatagct tctatatgtt 120  
ggcttatctg gtaaggaagc tcttagaatg agatcaattt ggtgctctat ccctctcaaa 180  
gcatgcaacc catgaggggt gtctttgagg aagacatccg ctaacctctt caataatttt 240  
tccacaccta gaggcaaaga actagctata taagacaaac aataatcatg aggcattagt 300  
aaatacatag gttgtctagc tagaatcact ctcttcacct tctgtattct catgaacaaa 360  
ctcaatatct gtctctcttg aatttcaccc ttntttgcag ttcactctta ttttatcgca 420  
ttctttcttt ctttctcttc tctcatgttc tctctcgttt atcaa 465

<210> 13196

<211> 305

<212> DNA

<213> Glycine max

<400> 13196

atctatggaa aataaaaaaa taattgtggg tcacgcatcg tattaatga tactttcttt 60  
tgattttata atttttaatg aattttaaca ataataaaaa atagtatgct tgaatgagtg 120  
tgttaaagag tgtgatatca atcttcttta accttataca atatttgaga ttacagatta 180  
atttaactaa tttagtaatt tctgggtgat tgggcgtgtt agcttaacct cttcttcatt 240  
taaaattccc tcgagacagt tgttcgaaat atattatcaa ttagtattct agctgttata 300  
ttatc 305

<210> 13197

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13197

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acattattgt cgtttgaatt agctcagagc ttcagaattc aatttcgatg gtctcgatat 120



attacgggtc tcaatcagac atctgagtaa aaaagttatt atcgtttgaa tttgctgaga 180  
gcttcaacat tcaatttcga gcgtctcgat gtattacggg acttaatcag acatccgagt 240  
aaaaagttat cgtcgtttga atttggtcag agcttcaaca ttcagtttag agcgtctcga 300  
tatattacgg gactcaatca gacatccgag taaaaagtta ttgctgtttg aaaatcctca 360  
gagcttcggt attcaatttc gagcgtcttg atatattacg ggactcaatc agacatccga 420  
gtaaaaagtt attgtcgtnt gaatntgctc agagcttcaa cattcaattt cgagcgctc 480  
gatataatttc gggact 496

<210> 13198  
<211> 406  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13198

agctntaaag aggatcaaat ngaacttatt gtttctgggt tggaacaaag caagcagaag 60  
ttcatatggg tgctgagaga tgctgataaa ggagacatct ttgatggaaa tgaaacaaaa 120  
aggatatgagc ttccaaatgg gtttgaggag aggattaaag gcatagggct tattgtgaga 180  
gattgngcac cccaattgga aattctgagc cacacttcaa cagggggggt tatgagtcac 240  
tgtggatgga actcctgctt agagagcata accatggngg tgccaatagc atcatggcct 300  
atgcactctg accagccaag aaacactggt ntgataacac atgtgctcaa tgttggtttg 360  
gttgtgaagg attgngcaca aaggaatgca ttggtgactg cgtcag 406

<210> 13199  
<211> 409  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13199

agcttcgaat ggtcatcgct tcattcttgt gtcgatagat tatttcacca aatgggtcga 60  
agcggcttct tataccaatg tcacgaggag tgtgggtggtc agattcataa agaagtgtcg 120  
taacctaccc ttcggcgagg gggcgacgag agactcgagg gatgcgtggt ccacgaaagg 180  
aatacgcgcg gagtcgccac caacgtttat tcgagganaa cgtcggataa accgganaag 240

acgagatcta ctgaactttt agtgaaaggt tcgggagttg tatttacgca cggatgaaggt 300  
 attagcacc caccagcccg tcccaagga cggcagcctt taatcgaatg tgcaacatga 360  
 ctctgatntt atgttccttt atgtcttata tctttataacc cttttatat 409

<210> 13200  
 <211> 498  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13200

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 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
 gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttctctcatt taaaggaaag 180  
 aatgatccgg aggcctactt ggagtgggag atgaacatag agcatgtttt ctcatgccac 240  
 aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
 gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca 360  
 tggacggaga tgaaaaagat catgaggaag cggtagtgc cggctagtta ctcaaggagc 420  
 ttgaaattca agctccaaa actaacccaa ggcaacaagg gggtnagga gtatttcaag 480  
 gaaatggatg tgctcatg 498

<210> 13201  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13201

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 actatagcat ctttctggc gctaaactgc tgggagttag aagccatctt ctcaattaaa 120  
 ttcttggtt caacaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctccgaaatc 240  
 agatggtgag ggcaactggc acatagtttt ttaaactcgt ccagtactc atacaggctc 300  
 tctccactga gttgtcta acctgagata tccttcctga tgggtgtggt cctggaagcc 360

agggaaaatt tttctaagaa tactctctta aggtcatccc agcttgtgat ggaccttgga 420  
gcaaggtaat acagccagtc ctttgccact cncctaatg aatgaggaan agccttcaga 480  
aatatgtgat cctc 494

<210> 13202  
<211> 440  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13202

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gaanacaact ttcaaaacta aatatgggtg gtatgaatgg ctggttatgc cctttgggtt 120  
gaccaatgct cctagctctt tcatgagatt aatgaaccat gtgttaaggg aatttctang 180  
aaaatttatt gtggtttatt tgatgatatc ttgatttaca ncaaattcca tgatgaacat 240  
cttgttcatt tgaggagagt tttaaaggcc cttagggcatg agagcttgta tgctaacatg 300  
gataaatgtg tgttctgtnt ggaccatgta agtttcttg gttntgttgt tagctcatac 360  
ggagtacagg ttgatcaaga aaagggtgaaa gtcattcaag aatggccaac ccacaactgt 420  
atgtgaggtt agtaactttc 440

<210> 13203  
<211> 250  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13203

cacaacaatc cgctctcata tgggatctaa cgagcatagt natcgtctcc ataatggcta 60  
catctactaa ctgctcacca tttctcttta ggtgattgga aacagcaaga attcttggag 120  
aataattgga aatggactct tactctctca tatgtaagga gtctcactca cctcttagag 180  
tgtggagaca cacctgtttt actctgtctt ctcttttgag agaggttaga agcctatcac 240  
atgcctcctt 250

<210> 13204  
<211> 470  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13204

agcttgtgca ttcaatatcc cgatgaaggt gttccatatg ttctcaagac tggactaata 60  
catttactgc ccaagtttca tgggtcttgca ggtgaagatc ctcataagca tcttaaggag 120  
ttccatattg tttgttccac catgaagccc cctgatgtcc aggaatatca tatctttcta 180  
aaggcctttc ctcattctct agagggagtg gcaaaagatt ggttgacta ccttgctccc 240  
aggtccattt tcagctggga tgaccttaag aggggtgttct tggagaaatt cttccctgca 300  
tctaggacca ctgccatcaa aaaacacatt tcaggcatca gacaacttag tggagaaaagc 360  
ttgtatgagt actngaaaag atntaagaaa ttgtgtgcaa gctgtcctca ccaccagatt 420  
tctgagcaac tccttcttca atatttctac ganggactta naaacatgga 470

<210> 13205

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13205

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gaacggccct gaccacttgg acttcagctt acctgagaat agccttagtc tcgagttaaa 120  
aagtagtact tgttgccctg gctggaattc tttcctttgt agcttcttgt catgatacgc 180  
cttcactctt tgcttgtaga ttttggaatga ctcgtaggcg ttcagtccca tttcttctaa 240  
ttccagtaac tttagattcc tcttttctcc gcatgcactg tcatcgaaat taagcaattt 300  
gaaagcccaa tatgctntgt gctctagctc cactggtaag tgacatgcct ttccatatac 360  
tagcagaaat ggtgataagc cgatgagaat cttgaatact 400

<210> 13206

<211> 480

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13206

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ccatgtatatt tcattcaatt tagtggtgat taaaccaacc caaaacatct tttttcaaat 120  
 gaaaaatcac ttattttatt gaaaaataa atntaaataa actcactcat attctattgt 180  
 tattcctatg tactttgtta atctttatct caatttttag ttaagattat aaatataagt 240  
 aaaaaaatga agagtatatt ataattataa agattacaat gaaatataat tatataataa 300  
 aatgttagac aattattcaa aatattgtta caactataat ttttaattttc tttctttata 360  
 aatataattta ttttaataaaa taatatattt tatcataaga gtctaattca attcgttgaa 420  
 taaaatgtga gtngttgcaa aattcttgat gtgattcgta gagatataaa atattaataa 480

<210> 13207  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13207

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 ttgaatttgc tcatagctac aacattcaat ttcaagcgtt tcgatatatt actggactta 120  
 atcagacatc cgagtaaaaa gttattgttg gttgaatttg ctcagagctt cgatattcca 180  
 tttcgagcat ctcgatatat tacgggactc aatcagacat ccgagtataa agttattgta 240  
 gcttgaatct tgctcaggct tcngtattcc atttcgagcg tctcgatata ttacgggact 300  
 caatcagaca tccgagtaaa aagttattgt cgtttgaatt tgctcagagc ttengcattc 360  
 catttcgagc atctcgatat attacgggac tc 392

<210> 13208  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 13208

aagcacctgc ggctgcagct gatcccacaa tccaccataa tgtgtatttc tcccaacgga 60  
 gctcgctcta tcaaattgcaa tccgataggc cggccatggc ccttatctgc caatctatca 120  
 gcaatagagt agccttctat gagagtatgc gtaattctct aaccaaattc tgtcaaccca 180  
 atcataaagt tgcttgataa taaccaccat cgggtgatta atgatcacct aagtatctag 240

aataagcttg ttcacagtaa cataatcact ctccaacccat attgtatatc taaaatctat 300  
 ttcccaggcc agcttcaacc tatatagaat tcccatcaat tcagctctca aaacagtaca 360  
 tgateccaga ttgaaagtga agctcgtcat acaaatgtcc atactatatc taattgcccc 420  
 tccacatgca gccttgctt 439

<210> 13209  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13209

agcttatgct gcagacatgt atattttacc tctttcgcag caagaaccac aacagcagaa 60  
 taattatgat cnttcaagct accgatccaa ttcaggatgg aggaatcatc caaatctgag 120  
 aaggacgaat tcatcacaac tacaacagtc tgtccctcct ttccagaatg ttggtgggttc 180  
 gaacaagcgc atatgttctt cttctaagtc agcagctgca tcaacagcat catagacttc 240  
 aagcaactga gacccttct taacctttct aagaagagtt gatgaagcaa atgaac 296

<210> 13210  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13210

tcaagcttga ccaggaatta ttgtattggt tggttgttga attctggttg ttcctgggtgc 60  
 ggagatgatg gtacagcggg tgaaccagga gcggcagttt cttttggtga ggaagccatg 120  
 gaaaaacaga gcgtttggaa tgatttcgta aatctcagaa aactattggg aaatgctgga 180  
 gaaaacacga atgccaagca gatataaatt tgaatgaaga atgtagaggg gcgtgtgaag 240  
 caacggtcga atttgctttg tgggtgaacgt gctattaatg ttaagtgatt cgtttgggca 300  
 cgttcagatt gcagtagctg ctataattcc tctagcagac aaatgccag cttgcccttc 360  
 agtttttcaa actgattngc atccaaagcc tttgtgaaaa tatctgctat ttgttcttca 420  
 gtgtcaacat gcttcagtgt gatcactnta tcacaaacaa gatctctgat atagtgatgt 480  
 ctaat 485

<210> 13211  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13211  
  
 aaaagttccc aatcaaagaa tcggaagaaa gcaaaaggag aaaattccca atcaaagagt 60  
 gggagaaagc aaaaacacaa gagaaagaaa attcccgatc aaggatcgaa agaaaacaga 120  
 agaaatatgc agaaaggtct ttggaccaga caatatctga acaatacaga attgtcacc 180  
 aagtaaacag aaaagaaagg aaaccacgac ctanagtgat cctctccctt tgattgccaa 240  
 ccaaaatcct gtgcgcggt gacttgtcca gtcacacta aacaaaaaac agaaaaggaa 300  
 aaggccaaga aactcaaag ccaaatttcc cacaacccat tccaagaaa aaagtcctat 360  
 tgatccatga tcacacatgt aatctttgat ntgatagaan atgaattgca aaaccaagtc 420  
 atgacatatc tatggttcgg aattaggatg aaacacttac ctatgtgaga ttggacac 478

<210> 13212  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
  
 <400> 13212  
  
 ctatgctctt gtgttggtga acaagctaca aaaagagaga gcaagatatg aagatcccat 60  
 ggttgataca tggacgaaga ttaaaaatat catgaggaag cggtatgtgc cggctagtta 120  
 ctcaatggac ttgaaattca agctccataa actaacccaa tgcaacatgg gggttgagga 180  
 gtatttcaag gaaatggatg tgctcatgat tcaagcaaatt attgaagaag atgacgaggt 240  
 aactatggct cgatttctta atggtttgac taatgatatc cgtgatattg ttgagctgca 300  
 cgagtttggt gaaatggatg atctgcttca catagcaatc caagtggagc aactattaaa 360  
 aa 362

<210> 13213  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations

<400> 13213

ttcaataatc taacttacag agattagcga atcttaataa atatatagag cttagataa 60  
taattaagtt caatagaata aaaaacttcc accccaaca aaactcctgt atggtcctcc 120  
tacacaaacc aaaacataaa atacacactc tcgacagcaa aacattttaa attataaaca 180  
tacnggggttg tagacacaat tgacataatg canaaccaaa agtgtgccta tcaacaaaac 240  
tagaaagntt tgctcacaat tataataaga tagaacaat gggctttact acaagtgtct 300  
attactataa ttttatattg catgactcta ttttatattt actattttaa ttgtgtggaa 360  
tggtgtgcta cattatatta taataattga aaacatgtac acaaatagaa attatacaa 420  
gttctcttag atcataatgg cctgatgaat aatat 455

<210> 13214

<211> 486

<212> DNA

<213> Glycine max

<400> 13214

gctacgatag tacttatgga taacttaatt acttataact actaattaat aaaaatcaaa 60  
ttatcttcca atgctattct tttattaatt gagttaatta tccattacta gtcatatatt 120  
gaaaaaatgt cctttaaatg taaaaaatga tagacattaa gattgtcttc attgatatat 180  
agtctttgcc tctctttttt aatcctaaca tatgatatat taatagtata tttcattttt 240  
ttaaatttaa tataattata tattagtagt aaaaaacatt catgattgaa ttataattaa 300  
tatgttctta gttcgaataa aattgataca attttcttat aaaatgtctc acatttggat 360  
tttatcatat aaaaacataa atattttaca tcaatatcat gataatctac gaattaagat 420  
aatataaaag tataatattt ctattgtaga tttaatgtat attaaacaca caaaccaact 480  
tataca 486

<210> 13215

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13215

agcttgagcc anaatcctaa ctcaccatan acctgaccc angatgagaa tgtcaatcct 60



taccctcgga agcaaaaanag aagagaagga aaatttccaa tcaaagaata aaataagaga 120  
aggataattt ccaatcaaag agaaagctaa aaaaagagag aaggaaaatt tccaatcaaa 180  
gaaataaaaag agaaggataa tttccaatca aagagaaagc acaacaaaga gagaaggata 240  
atttccaatc aaaggaaaaa agagaggaaa ggaaattccc aatcaaagag tgggagaaaag 300  
cgaaaagaat agaaaagataa ttcccaacca aagagtggga gaaagtaaaa ggaaggaaaag 360  
aaagctcctg atcaatgatc gaaagaaatc agaagaaatg tgcagaaagg tctctggacc 420  
ggacaatatc tgtacaatat agaattgtca 450

<210> 13216  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13216

ngccttgccc cttgatatat atgagggact catggtcgct atgaatgaca aattccttgc 60  
gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120  
aagttgaata gttaaaggta ggaccactta acttttact aaaataagca attggatggt 180  
cttcttgcaa caacacagcc ccaatcccga catttgaagc atcacactta atttcaaaag 240  
atatttgaaa gtttggaat gcaagtatga gggcattagt taccttttgc ttaagaatat 300  
tgaaagcttc ttcttgtttc tttcctcatt tgaaccaaac atttttcttg agcacttcat 360  
tgagaggtgc tgccaatgtg ctaaaatcct tcacacatcg tctataataa cttgctaagc 420  
catgataact cctcacctcg atcacagact t 451

<210> 13217  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13217

tgagaatgga gaattgcact aagcaatcac tacgcatagc tctcaactcg aagggtggagg 60  
acacatgaac gaaaacacaa ttcattggggc tccgaanaag ggggttgagaa tggagaatta 120  
cactaagcaa tcactacgca tagctccaaa ctcgaaggtg gaggacacat gaacgataac 180

gcaattcatg ggggtccgaa aagattgaga atggagaatt gcactacgca atcactacgc 240  
 atagctccaa acgcgaaggt ggaggacaca tgaatgaaaa cgcaattcat ggggtccga 300  
 atagattgag aatggagaat tgcactaagc aatcactacg catagctcca aactcgaagg 360  
 tggaggacac atgaatgaaa atgcaattca tggggctccg aanagattcg aatggagaat 420  
 tgcactaagc aatcactacg catagctcca a 451

<210> 13218  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13218

tcatgttaac ctaataaatc aattcatggt tataacttat gcaaaaatag tattcggcac 60  
 acttacatta atgtctttct aaatgtcttt aagcatctgt aattataatc attgtatcac 120  
 tggaattccc ctcatntcct tgaactanga ataaagatac gtgcttcctt tatttgtaag 180  
 tagcttcac tcaaaatggc tatctgttta aaacatgtat tggattctat tgcagtatca 240  
 acaagatgac ccacgtaccc tttgcgtgaa caaagttggt ccttataaca atccacaaga 300  
 tacgtacaat tattacagcc taccatgttg ccgccacct gttaattctg cacacagatg 360  
 tggagtgcct gatgaagtcc agtgtggcaa tgatctcatt gat 403

<210> 13219  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 13219

tgtgacgatt gttatgtcta atgaaatgta aacatgagca actatgggct ttaagaagtt 60  
 attatctgga tttttgttga acaagatggt atacgggaca ttaaaatgca cagaagcagt 120  
 aagcaatcta tttatcaagt atactgctct agtgaaggta aaaaaacttg ataagcacgg 180  
 aggcttgttt aaaaacagtg agtcctaatt ccacaatatg tctgcgcttc ctttccacta 240  
 caccattttg gtgatgagtg tgaggactga tccatctatg agtgatacct tggcttgcta 300  
 taaaaatagt gataggctctg aactccactc tccggtctgt ttgaac 346

<210> 13220  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13220

tggtcataac taatcactca gaggtcttat tgangcgcat aatatatcga cacgctcgaa 60  
 attgaacaat ggaagctctt gaacgattca aatggtcata tctgtttcac acatagggtca 120  
 gattcatgcg ccaaataatat ccagacgctc cagattgaac aacagaatct ctcgagaaaa 180  
 tccgatggta atgactcatt actcggttgc ccgattcttg agcgttatat atcacaanct 240  
 ctatattgta cactggaagc tattgaccta ttcaaattgt cataactaat cactcggtatg 300  
 tctgattgta gcgcgtaata tat 323

<210> 13221  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13221

gtggtggaac aagctacagt aggagagagc ttgaaatgaa tagccaatgg ttgatacatg 60  
 gacggagatg aaaaatatca tgacgactcg gcttgtgccg gctatcttact catgggactt 120  
 gaaattcaag ctccaanaac taacccaacg caacaagggg gtagaggatt atttcaagga 180  
 aatggatgtg ctcatgattc aagcaaatat tgaagaagat gacgaggtaa ctatggctcg 240  
 atatcttaat ggtgtgacta atgatatccg tgatattgtt gagctgcttg agtttgatga 300  
 aacggatgac ttgcttcact attcaatcct agtggagcat catatt 346

<210> 13222  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13222

aatatatttt atcaagaaaa tcaagttaaa atttataaaa aaaaatgtta cataaatatg 60  
 tttatttatg taattttaca ttttanagtt aatctaacia gaataattta tcaaacattt 120

ataattcaat aagatgatgt tcaattttta actattaatt atctttttta gctagttggg 180  
 taaacatagg cttagtctct catttcttta taaagaaatt ttcattattga ttntangata 240  
 ataagatggt tattttattct tattgagaag aaatataaaa aatgttttgt tntgaagatg 300  
 atggattaca aaaaattaaa cacccaaaac aaaagtaatc taaatc 346

<210> 13223  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13223

ctcagcttaa catcagacca cttccagggt gctggaacta cttcacatgt acttgatggg 60  
 gcctatgcaa gttgtaagga aaaacaggac tctgcaagag gctgctaggg tcatgcttca 120  
 tgccaaagaa cttccctata atctctgggc tgaagccatg aacacagcat gctacatcca 180  
 caacagagtc atactgagaa gagggactcc aaccaccctg tatgaaatct ggaaagggag 240  
 gaagccatct gtcaagcact tccacatctt tggaagtcca tggtacatct tggcagatag 300  
 agagcaaagg agaaagatgg atcccaagag tgatgcanga atattcctgn gatactctac 360  
 aaacagcaga gcatatagag tattcaattc cagaaccaga acagtgatgg aatccatcaa 420  
 tg 422

<210> 13224  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13224

agcttatagt tattggaggg agaataaaac aatttanaat caattgtacc tttcaagtaa 60  
 cgaagaattc tttntgcagc tnttagatga ggagaggtag gagcctccgt aaagcgacac 120  
 acaactccca cgcgatatag aatatcgggc cttgtattgg ttagatacct tanactcccc 180  
 acaagactct tgaagatcgt ggagtctacc ttctctcctt catcaaaatt tgataacttc 240  
 aagccacctt ccataggtgt gttcacggga ttgcaatcaa gcatattaaa tntcttcaac 300  
 acttcttttg tgtagctntc ttgtgagaca aagataccat tcttcgttnt cttcacttcc 360

attcccaagt aatatgacat gagtctcgta tctgtcatat caaattcacg agacatggna 420  
ctcttgaagt ct 432

<210> 13225  
<211> 286  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13225

tacatcttat atggataaag caagcttccc gctagtgttt ccttaagttt catgggataa 60  
ttgcttcatt tggtttcgat gaaaacccca tggctcaatg catataccac atggtcagt 120  
ggagtaaaat atagtgtctt gttntatatg tagatgatat tttacttgca gccaacgatc 180  
ggggtttgct acatgagggtg aaacaatttt tctctaagaa ttctgacatg aacgatatgg 240  
gtgatgcac ttatgtcac ggcatthaaga ttcatagaga tagatc 286

<210> 13226  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 13226

ctaagcttaa cattcaattg tgagcgtctc gtaatattac gggactcaat cagacatccg 60  
agtaaaaatt tattgtcgtt tggattggct cagagattca acattcaatt tcgagcgtct 120  
caatatatta cgggactcat tcagacatcc gagtaaaaag ttattgtcgt ttgaattagc 180  
tcacagcttc aacaatcaat ttcgagcatc tcgatataac acgggactca atcagacatc 240  
cgagtcaaaa gttattgtcg ttgaattgg ctcagagctt ccacattcaa tttcgagcgt 300  
ctcgatatat tacgggactc aatcagacat ccgagtaaat agatatcgta cgttgaatag 360  
gctcagagct tcaacattga atttcgagcg tctcgatatg 400

<210> 13227  
<211> 308  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13227

actcggatgt ctgattgagt ccggtcatat atcgagacgc tcgaaattga atgttgaagc 60  
tctgaaccaa ttcagacgac aataactnta tactccgatg tctgattgag gcccgtcata 120  
tategagacg ctcgaaattg aatgttgaag ctctgagcca attcaaacga caataacttt 180  
ttactcggat gtctgattga ggcccgtaat atatcgagac gctcgatatt gaatgtggaa 240  
gctctgagcc aattcaaacg acaataactn tntactcgga tgtctgattg acgcccgtaa 300  
tatatcga 308

<210> 13228  
<211> 497  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13228

cttatactnt atgttaatgg gtatgaagtg ataatatttc gtcaatttat ccactattac 60  
ccatactaca tcttggcgag atntggctct aggcaagcca aagacaaaat tcatcaagat 120  
acaatcccat ttccactcaa gaattgtcaa aggttgcaat tcatcangaa atttttgaag 180  
ttccacattc gctttttgac acctcatata ctttgccatg tactctgcca catttttctt 240  
caagctataa caccaaaagt tcttcttcac atcttggtag atntttgtga aacctggatg 300  
aaaactcaat cgactcttat gcattnttcc aagatttctt ccttcaacat gctctagtga 360  
ggtagtcaca nctcattcct tgaatggatg agtccattcg catccttact gaattctaaa 420  
ttttgccttc ttctttaact taatcntgtc tatangaatn gatctccttg tgaacctctc 480  
aacttgttca aacactc 497

<210> 13229  
<211> 288  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13229

taatctactg cctcaattag agtttcttcc ttgtctatca cattangact tgtagggaca 60  
taccatata aagcctcaaa atgtgtcatt tgtgggtggg tatgaaactt ggtattatac 120  
cataattctg ccattgctaa atgatttgtc cattatttgg gcatatttcc aatagcacat 180

ctcaaataag cttctacgga tttattgaga ttcccaatct atccactatt ttgtgtatgg 240  
aaaggtgtgg atcttaacaa tttaacacca tgtgactgca ttaaacct 288

<210> 13230  
<211> 440  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13230

tgtgttctcc cttgtagaac tactatctgt attaacagtn gcaacccaac tatctggtag 60  
tgatgacaat agaatcaatg ccttcacctc atcctcaaat ntaatctgta ctgactccaa 120  
ctgggcaaga atagtattaa attcattaat atgatcaatt acagagttac cttctcccat 180  
cttgagggtg aacaactgac gcatcaagta tactttgttg gctacagacg gcttctcgta 240  
catatctgat aacgccttca ttaagcctgc aataatcttc tcgtttacaa tgttgaacgc 300  
gacgttcttg gctaattgtca atctgatcat gccaaagacc tgatgatcta gcaagtttca 360  
ttcttcttgc cttatngccg ttggcttacc ccttgataaa ggttgatgca gcttcttctg 420  
atatagataa tcctctatct 440

<210> 13231  
<211> 408  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13231

cgagtcttac tgaaagctgt gccgggtgtt tcactactat tggatgatgtg tattctatga 60  
caagaactat tggagttccc atgacaacca ttgaagccag gctggaatct gtgccagata 120  
tgggatatga tgccctctcc aatgtacccc gtggagaaat ttgtttgaga ggaaataacct 180  
tgttcttctg ctaccacaag cgtgaagatc ttaccaaaga agttatgggt gatggctgggt 240  
ttcatacacg taaaaccatg ttgtcctgta ttctaaatta acatagtgtg tggtn gatca 300  
gcacacaatt cacatacatg taaaccattg caggtgacat tggagaatgg caatcaaata 360  
gggccatgag aattattgat cggaagaaga atctctacta attgtctc 408

<210> 13232  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13232

ctcaagctnt ttattntcac tcgaatntga aattgaattt tggagacaaa ttntcactaa 60  
 ttatgattag tgaacttttag ctatgggttca gccaccaat ccaagatcaa ttccaagatt 120  
 ctccactaag tgtgcttatg tgtcatgagg catgtaaagc atgaatgaca tgcacaaagt 180  
 gtgactatat gatgtggcaa tgggggtgtag caagcaaagc atcacctccc cctctaatat 240  
 ttaattggat tgggtcttctc ccaattcaat taaatntatt tctcaacaca cacatcanat 300  
 atggacttaa ttaacgtgan attacaaaac taccctaat acacanacta tagtctaggt 360  
 gccctataat accagggctt gaaaatccta catntctang gtacnctacc tacattat 418

<210> 13233  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 13233

tgattctgtt gagaaagaat attcctcatt cctattccca atgcgtccat ttccaccacg 60  
 aatggcaggg aaaagtccgg caaccgcaag actagggcgc tacagatgac ttccttgagc 120  
 ttgtcaaaag ctgcttgggc tttcggggac cagcaaaact tgtctctggc caggagctga 180  
 gttagagggtg ctgcaattga agcatacccc ttaatgaatc ttcgatagaa acctaataaa 240  
 ccgagaaaagc cccttaaagc tctggctgag gaaggtactg gccattgttg gattgcttcc 300  
 accttcgtcg agactgggtg aacaccaaac tacgagacca aatggcctag atactccac 359

<210> 13234  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13234

gtggtctata taggctgtca natgcattat tactcaatnt cgataaatgt tcataganaa 60  
 ttttgcattg ggttgtttta ctttgcataa ttttcattta ttaaaaaata ttanatntct 120



gctctttact ttatcctcca gggttgaatt gctgaactta aaacagctgt tgaaagaacc 180  
 ggaggtcttg ttgtacttgc tgaaagtntt ggccattcag tgttcaagga ttcactanag 240  
 cgtgttttcc aatcggtgga ttatgatntg ngctctatctt canagtaagt ctttaaagaa 300  
 tttcattntt atntnntgta totgatatac taatattcct gangtgtgtt tcttggtgat 360  
 gtaataagga taactctact gcataaatta ttattggcta gtgagctact atgttagtta 420  
 aatact 426

<210> 13235  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13235

gtgactactg cgggtgattt cngcaacccc ggctcgaca ccgtggcgaa ttggttcaag 60  
 attgagaagt atgaggatgc ttacaagttg gtgtactgtc caagtgtgtg ctacgattgc 120  
 agttatccat gcagtgatat tggaatatac caggatgaat atggcaaacg tcttgctcta 180  
 tgttctgaac catacaaagt gaagttccag cgggcttgat tattgaattg ataactaaac 240  
 tcaataaaga ataatgaata cgtgtaatga actactctat gctcntgctg catatattgg 300  
 aat 303

<210> 13236  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
 <400> 13236

gaatcacaaa tttgtacctg tcgcaagggt ttgtggtttg tgctcctctg ctgaccacca 60  
 tacagacctt tgcccttcca tgcaacaacc tggagcaatt gagcagcctg aagcttatgc 120  
 tgcaaatttt tacaatagac ctctcaacc tcagcagcaa aatcaaccac agcagaacaa 180  
 ttatgacctc tccagcaaca gatacaacc tagatggagg aatcacccta atctcagatg 240  
 gtccagccct cagcaacaac aacagcagcc tgctccttcc ttccagaatg ctgctagccc 300  
 aagcagacca tacattcctc caccaatcca acaacagcaa caaccgcaga aacagccaac 360

<210> 13237  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13237

agatggacca tntcaagtgc tngaaagaat taatgacaat acttaciaag ttgagctgcc 60  
cggtgagtat aatgttagtt ccaccttcaa tgtctctgat ttatctcttn ttgatgcaga 120  
tggagaatcc aatttgagga caaatccttc tcaagaggga gagaatgatg aggacatgac 180  
caagagcaag ggcaaggatc cacttgaagg aattggaggg cctatgacaa gggctagagc 240  
aaggaaagcc aagcaagctc ttcaacaagt tntgtccata ctatttgaat acaagcccaa 300  
gtttcaagga gaaaagtcca aggttgtgag ttgtatcatg gcccaaattgg aggatggact 360  
aaatgacacc actttgtctc aatttagagt ggtagt 397

<210> 13238  
<211> 333  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13238

gacgcaaggc taagcgataa gatactnttc ccactaattc gatgatctga tagggggccat 60  
aaaaacgctt tcttagttnt gaaacttate agcgatcgaa gtttggcggt aaagtcttag 120  
cttcacatag acccagtccc caattttgaa gttgacttct tgacgggtgag gatcagtaga 180  
gttcttcatt cgtgcctgag atcgttcgag tntttgacga agggcatcaa acatatcttg 240  
gcgagtggta aggaggaagt ccacagctc gactgatgat gaaccaggaa ggtagtccgg 300  
gatatcgggt ggtggcttcc cgtacattac ctc 333

<210> 13239  
<211> 232  
<212> DNA  
<213> Glycine max

<400> 13239

atataaatat atatcacgac tctaacttca tgatattgat gcctatctac gccacatatg 60  
aatcattgta taatggaaca ataatatatg gatgtataga gatggaaaag ctgaccttct 120  
cgtctattat tgctttatac atagecgactt gctccttgge agcactggta gtgttttcag 180  
cttctccttg aagatgcaac tttgacttct tgatgtctct ctctctgtc tc 232

<210> 13240  
<211> 173  
<212> DNA  
<213> Glycine max

<400> 13240

tccgtgtgaa atgttatgac catctgaatt tctcgagagc ttccgatgtt taatattgag 60  
cgtatccatc tatgatacgc ctgaatcgga cctccgtgcg aaaagctatg accattcgaa 120  
tttctcaaga gcttccggtg ttcagtttgc agcgtctcta tatgtcatgc gcc 173

<210> 13241  
<211> 447  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13241

actcagctta cacaatntag ttttctcaca cttgagtctt agaataactaa ttactaagtc 60  
ttttctgact cgatgattga aatgatgcat gtttatgtgt gtatccctac aatgccataa 120  
tcaagaatca ccaatcttac ttactaaacc actaagttca tgaaatgatg catgtttaat 180  
gttttaacat atagatatca cctatccttt tgctaatatg gacaattgtc acaaagttga 240  
ctaagtctca agaggttatg ctttagtcca tcaacatata aaacattctt tatttgtgtc 300  
ttgtactgat tttcaatggt tcttctccc ataatatcc ctttattggt gtcttcaaaa 360  
gtgatgtatc ctctttcttt tatacaaagt cagaagtttg aacttgtacc catcatgtgc 420  
ctagaccaac cactatccaa gtacat 447

<210> 13242  
<211> 346  
<212> DNA  
<213> Glycine max

<400> 13242

tgtccatatc atggaagacc ctcatgacat ctgagctggt attcattgga tttctgatat 60  
 ggagctccaa gagattaatg ctgtgggac aagatatacc tggataaggc ctaatgggta 120  
 tgtgaagagt atgcttgaca gatttttgggt ctcggaacaa tggttgtcta tgtggcctga 180  
 gagctgccaa catgttttgc aaagggatat atctgatcat tgcacaacca ttctgcaaac 240  
 taacatggcg gactgggggc ctaagccctt tatgggtttt gattgggtggc tgcagcacia 300  
 agagtatcaa acaatggtga gggagacctg gactaatgat cagcat 346

<210> 13243  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13243

tcntagtctc aatttgagcg tctcgatata ttaccgggt cattctgaca tccaagtaaa 60  
 aagttattgt tgtttgaatt tctatgagc ttcggttttc aatntggagc gtctcgatat 120  
 attacaggac tcaaccggac atccgtgtat aaagttattg tcatttgaat tttcttagag 180  
 cttcggtatc aaattttgag cgtctcgata tattacggga ctcaatcaga catccgagtc 240  
 aaaagttatt gtcgtttgaa tttgatacga gcttccgttg tcaatttga gcatccctcg 300  
 ataaattacg acactctgtc gggcatncga gtaaaaagat attgtcgttt gaatattcta 360  
 agagtttctt gtttgaattt ggagcgtctc gatataattac gggactcaac tggacatccg 420  
 tgtataaagt a 431

<210> 13244  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13244

tgaatggtga cctgcgtaga agtgtgagtt gattgagagg caatcattta ttcaacttcg 60  
 catttctctc gcatccactg aaccaagatt cctattccan aatgaccggt aactgttcca 120  
 ttttcatttc tctcatatct cagattcatt cataataatc ataacaacc tttctctaata 180  
 ctatggagat tgattgctgc agctcctact tcttccagcc tgtggctggc tccaataccc 240

agcanaagat ggtgcgaact cttcttcctt ctctacaccc ncttctggct caccctttga 300  
 ctcggcattg ttattccctt caatctttac gaaggtttac tctatccacc ttttacattg 360  
 tnntttgtaa gcattcta atgatctcac agtttgatct atctggccac tacggaataa 420  
 tccgttacac taatccacta aattatt 447

<210> 13245  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13245

tcacctggtt caagcacgac tntctttctg cttttgttgg cttgccttgc atagctcgca 60  
 tntttctttt caatttgagc cttcacttgc tcatgcaact tcttcacata ctttagcttta 120  
 gcctgtgcat ccttatgctt aaacatagca atgttaggca taggcaacaa atcaagagga 180  
 gtcaaaggat taaatccata cactatctca aatgggtgaac aattagttgt gctatggaca 240  
 gcctgattat aagcaaaactc aacatgaggc aaacaggctt cccacaatat aagaattttc 300  
 tttataacat tcctaatacan tatgcctata gtctatttga ctacctcagt ttgaccatt 359

<210> 13246  
 <211> 302  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13246

tgctggaact acttcacatg gtcttgttgg ttcctatgca agttgaaagc cttggaggan 60  
 agacgtatgc ctgtgtgggt gtggatgatt tctccagatt tacctgggtc aactctatca 120  
 gagaaaaatc agacaccttt gaagtatcta aagagttgag tctaagactg caaagagaaa 180  
 aatattgcgt gatcaacaaa atcacgagt accatggcag acagttcgag aacatcgggt 240  
 ttactgaata ctgcgcatgt gatggcatca ctcatgagta ctctgctacc attacaccac 300  
 aa 302

<210> 13247  
 <211> 441

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13247

ctgcagctta gctntgtccc aggcttcatg tagacttgtc caanatcgcg aagtaaacct 60  
cggatccctg tcggatacaa tatcggaagg aattccatgc aacctcacta cttccttgat 120  
gtacaactcc actagcttct ccattctata cttcatattc accggaataa aatgtgcaga 180  
tntggtaagt cgatctacta tgaccacac agcgtcatgt ccacgactag tcttgggtaa 240  
actagataca aaatccatag atatgctctc ccatttccat tccggaattt ccaatggctt 300  
caattctctt gatggtcgct ggtgctcaac cttatgcctt tgacatgtca aacatcttgc 360  
tacatattca gctacatctt tcttcatgtc atgccaccaa anacttctct tcaaactctg 420  
gtacatctta gtcattcctg g 441

<210> 13248  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13248

agtcttgtct ttacatact tatatggaca tctggtgagt atgtaaacag cagtgtagac 60  
tgcttcagcc cagaatgtgt taggtagtcc ctttctcttg agcatcgatc tagccatctc 120  
cataactgtg cgattctttc tctcggacac tccattntgt tgaggagaat atgcgactgt 180  
aagttgtctc tcaatgcctt catcctcaca aaatctttca aactcgtgag aggtgtactc 240  
tctgccgcga tcacttctta atacttttat ccgttttcca ctttgatttt caacaaggac 300  
cttgatactt ttgaatactc canagacttc tgatttttct tttagaacat atactcatgt 360  
cattctagag aagtcatcaa t 381

<210> 13249  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13249

catgatatat gacgggtctc attctgacat ccgagtaana actaatcgtc gttggaattt 60  
 cctcagaggt tctattttca attctgtgag tctcaatata ctacacgatt caatcggact 120  
 ttccagtaaa aatgtattat cgtttgaatt ntctcagagc ttctattttc aatttcgagc 180  
 acctataatt attaagggac tcaattggac atccgagtca aaagttattg ttctttgaat 240  
 ttctcagag cttctatttt caattttgag cgtctcgaat tattaagga ctcaatccga 300  
 catctgtgtc aaagttaatt acgttgaatg tctcagagct tctgtttcaa ttgagtgct 360  
 agatatatac cggactcaat cgacatccaa caaaagtatt gcatttgatt ttggagagct 420  
 cgtatatttc 430

<210> 13250  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13250

tgtaagattt gcaagatcat cttcgttgac aactccttga gtattatggc catctataag 60  
 aagcgttgac aatttataga gtgatccaag actttcaaat ggatttccgc tgaatttatt 120  
 aatagagaga tagagatatt ttaaattctat ctcccataag ttgcggagat tacccaaaaa 180  
 agtcggaatt gttccttcaa gttgattacg tgataaatca agttcaacaa gagaagtcaa 240  
 atttcccaa gaagttggaa tggttccttc aagttgatta tatgacaaat caagttcaac 300  
 aagagaagtc aaatttccca gggcatcaga aatagtccea tgcaagttgc tggaacttag 360  
 gtccaaagac ttgagacgat ganaaccgta taagcaatca cgtatagatg atgagaatga 420  
 attgaaagac aagtcaaga 439

<210> 13251  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13251

tgatgcaaca tatggagagg ttaatgaaac aacgagatga tgcgctccat gagaggttgg 60  
 atcaaatgga gaatagagat cataatgaag aagaaaggag gagaagaggg aatgatggtg 120

ttcctagaca aaaccgaatt gatggtatta aactcaacat tectccattt aaaggaaaaga 180  
atgatccgga ggcctacttg gagtgggaga tgaaaataga gcatgttttc tcatgccaca 240  
actatgagga ggaccagaag gtgaagcttg ccgccacgga gttttccgac tatgtctcttg 300  
tgtggtggaa caagctacaa aaggagagag caagaaatga agagccaatg gttgatacat 360  
ggacggagat gaaaaagatc atgaggaagc gatatgtgcc ggctagttac tcaagggact 420  
ngaaattcaa gctccaaaaa ct 442

<210> 13252  
<211> 451  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13252

actgtgtgca tgaatactgt tgggatgtgg caaattgtta tgcagttatt gttattccgg 60  
aaggaatgaa ttggcaacaa aagataagat tcttttaaga tgctgatttc tatctatggc 120  
ataacccgta cttattcaag ttaaaggggtg acaatttggt taggagatgt cttactaaag 180  
aggaagttca agacatctta tggcattgcc ataattcccc catatggtgg ccattataat 240  
ggggaaagga caactagtaa agttntgcaa tccaaattat ttcggccttc aattntcaat 300  
gatgcacaca atcatactca aagttgtgat aaatgccaaa gatccagtaa tacttcatag 360  
agacatgana tgccattata aaacatctta taggttgagg tctttgggta ttggggaaat 420  
tggtgcatgg aaccttttcc tcatcacatt c 451

<210> 13253  
<211> 351  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13253

ntgagccaat tctaacgagt aataactttt actcgatgt ctgtatgagt ctcgtaatat 60  
atcgacacgc tcgaaattga atgttgaagc tctaagccta ttcaaacac aataacgttt 120  
tactcgatg tccgattcag tgacgtaata tatcgggacg ctcgaaattg aaagttgaac 180  
ctctgagcca actcaaacga caantaactt ttacttgat gtctgattga gtaccgaaat 240



atatcgagac gctcgaaatt gaatgttgaa cctatgagcc tattcaaacg acaataactt 300  
 ttactcgga tgtctgattg agtcccataa tatatcgaga acgctcgaaa t 351

<210> 13254  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 13254

acattcaact ttgagcgtct ctatatatta cgggactcaa tcagacatcc gagtaaaaag 60  
 ttatggctgt ttgaattggc tcagagggtc aaaattcaat ttcgagcgtc tcgatataatt 120  
 tcaggactta atcagacatc cgagtaaaga gttattgtct gttgagttgg cttagagggt 180  
 caacattcaa tttcgagcgt ctcgatatat tacgtcactg aatcggacat ccgagtgtaaa 240  
 agttattggc gtttgaattg gctctgagct tcaacattca atttcgagcg tctcgatata 300  
 ttacggtact caatcagaca 320

<210> 13255  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 13255

gcttggcgct tatatctttg catgaatata tgctattggg actcaagagt gttatgcaat 60  
 agttgtggac aataaattac aaattagctt ggctaagaat ccagttgctc atgggaggaa 120  
 gcaacatatt gaaactaaat atcatcttct tcgtgatcaa gtttaataaag ggagattata 180  
 gttgtgtctc tgcaagtttg aacaacaagt tgtagatacc ctaactgaag aatgcaagat 240  
 gttaaagaatt gaggagaatg ttgaatgtgg tgtctttaga aactttgatt taaggaggag 300  
 tgttcgagag taattcaaag tgtaaccca tgtgtgtgcg tgaactttgt aggtatatag 360  
 ttaaattgtga caccctctac cctcacacat aacgaataag aggaaataaa atcatgtgga 420  
 aaattttata ataaaaaa 438

<210> 13256  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 13256

gcttatgcat ctcttttcgc accttttttt tattgatggg gtgagccttc tctgtggctg 60  
actaactggg ctgtagtctt ctcccatcat tatcttgtgc atacagtagg tagggctgta 120  
tcctttcaga tctgatatgt gccaccctat tgccctccctg tgtctcttga ggacctccac 180  
caacatgttc tcttcctctg ttggtagctc agtgcctgac accacaggct tgggtctcatt 240  
ctgctctaag aacacatact ttaagatggt gggtaggatc ttcagctcca cctt 294

<210> 13257

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13257

ctcattaaga atcaaagtgc catgaagaat atgtctgtct ttaatgaaag ctgtttgtct 60  
ttcatcaatt aagacaggta tgacatgtct caacctgttt gctaaaagct tagctattat 120  
tttatacatg cagcctatca aagatattgg tctataatca tttagggaact gaggggtggtt 180  
aacttttaggg attaaagcca agaaagagggc attgctgcct ctaggggaaac taccattgac 240  
atggaactca tccacaaatc ttctgaactc tggtttcagc acaccccaga attccttaat 300  
aaaattgaaa ttaaagccgt ctggcccagg ggacttatct ncaccacaac tccacacagc 360  
ttccttgagt tcttggtctg agaaagctaa aatcaactcc tcc 403

<210> 13258

<211> 452

<212> DNA

<213> Glycine max

<400> 13258

ttatagaatg cctgacgaga gcgtctccac ggagaaccct ctctacaagc ttctgcggcg 60  
tgtgaagaca ctgcgcgcgc gcgtggtgac gctggtggag catgatgcca acgccaacac 120  
ggcgccgttc gtggctcgag taaccgagtt gtgcgcgtat tacggcgcgc tgttcgactc 180  
gctcgagtcg acgatggcac gggagaactt gaagcgagtc aggatcgagg agggactgag 240  
tcggaagggtg gtgaactcgg tggcgtgcga aggaatggac cgcgtggaac ggtgcgaggt 300  
gtttgggaag tggcgcgcgc gtatgagcat ggctgggttc atgttgaagc cactgagtca 360

gcgagtcgct gattcgatca aagcgcgact cggtggcgct gggaaccgag tcgcggttaa 420  
 agtatagaac ggtgggattt gctctgctgg at 452

<210> 13259  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13259

ngttgtcatt gttgcacaat tgcaggagca acgagtaacc ttcttagctn ttccttccga 60  
 atcaatcttg cacaactgca gggagaaagt ccaccaaagt taaaacacaa aagcaatggc 120  
 ataaattaat ccattggaag gcataaatat agaatagtca tacaacaaca acaacgcctt 180  
 atcccactag gtggggctcg ctacatggat caacttccgc cataatgttc tatcaagtac 240  
 cataacttcta tccaaatcat taagtttgag atcctttttt ataacctctc ttatagtctt 300  
 tntgggtctt cctctgcctc gaattgtttg ccttctctcc atctggtcta ctctccttac 360  
 tacagagtct accggtcttc tctctacatg cccaaaccac ctaagtctat tttccaccat 420  
 cttctctaca ataagcgcta ctccaacct ctctctaata gttcgggttc taaattt 477

<210> 13260  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13260

cggagatgat ggtacagcgg gtgaaccaca agcgggaagt tcttttggtg aggtagccat 60  
 ggaaaagcag agcgtttgga atgatntctt aaatctcaga acgctantgg gaaatgctgg 120  
 ttaaaacact aatgccaagc agatataaat ttgaatgaag aatgtagagg ggcgtgtgag 180  
 gcaacggtcg aattctgttt ggcttaatag tgaacgtgct attaatggta agtgattcgt 240  
 tcgggcacgt tcagagtgtc gtagttgcta taattcctct agcanacaca tgcccagctt 300  
 gccctcaag ttttcaaact ganttgcatc caaagccttn gtgaanatat cttgctattt 360  
 gtcctcagt tcaacatgct tcagtgtgat ctacttatca tcaac 405

<210> 13261  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13261

tgaagacaag actatacgag gtatcttct tgggtatagc attatctcta agggctaccg 60  
 tgtctacaac ttgcaaacta agaaactcgt catcagtcga gatgttgaag ttgatgaata 120  
 tgcttcatgg aattgggatg aagaaaaagt ggagaagaac gttcttatac ccgcttaact 180  
 acctcaagaa gaatatgagg aagaagatcc aggtgaacca ctttcaccta catcacaaca 240  
 acaagatcaa gaactatcat caccagagtc tactccaaaa cgagtaagat ctttggtgga 300  
 catatatgaa acttgtaact tggccatact tgaacctgga agcnttgaag aagcgtcaaa 360  
 gcatgaagta tgggtcaagg caatggaaga agagatacag atgatcgaga aaagcaacac 420  
 atgtggagta gtnaatcgt 439

<210> 13262  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13262

catagcacca ctaattgttc tacttgtgaa gttgtttatg gtcctaacc actaactcct 60  
 cttgatcttt tgcctatgcc taatgtttct gtttttaagc ataaagaacg tcaagctaag 120  
 gctgactatg tgaagaagct tcatgagaga gtctaagatc atattgagag gaataataaa 180  
 agctatgcta tacaagccaa caaagggaga gagaaggta tcttctaacc cggagattgg 240  
 gtttgggtgc acatgataaa agaaagggtt tcggaacaca agaaatcana tcttcaacca 300  
 aggggagatg gaccatttca tgtgcttgat agaatcaatg acaatgctta caaagttg 358

<210> 13263  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13263

gcttcttagt ttcagatgat gcagatgggt ttgtatccac ctcatgcact cctctaata 60  
 ctatggcatc atttctggcg ctaaactgct gggagttgga agccatcttc tcaattaaat 120  
 ttctggcttc agcaggagtc atgtctccaa gggctccacc actggcagca tctatcatac 180  
 ttctctccat attactgagt ccttcataaa aatattggag aagaagctgt ttgaaatct 240  
 gatggtgggg gcaactggca catagtttct taaatctctc ccagtactca tacaggctct 300  
 ctccactgag ttgtctaata cctgagatat ccttctgat ggctgtggtc ctggaagcag 360  
 ggaanaattt ttctaagaat actctcttaa ggatcatcca actcgtgatg gaccttggag 420  
 caaggaata 429

<210> 13264  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13264

gcttctgctc tagctngagc aagttcagcc tttcttngt ttttgcctaa actnttctta 60  
 tagttggtaa caaatctatc aagctcccag agagtctcag catccacact atcaatgtcc 120  
 acttcaattt catcgtcatg ttgattaagt gctgaatttc tcttcttaat gatttgtaca 180  
 atagcatcaa gcttctctga aggcaagctc tgaaggttag tgcttagttt ttgcttttcc 240  
 tcaaatgtca tgtctctttt atgaggatct tttgcctttg gctnttttgg agctgggggt 300  
 ctacttgatg gagtaatgct catgagtctt ggagtctgtg tcattgattc tgatctattc 360  
 aaaatccttc tcatatcaag aggtggtggt gtaatgcaga aacccttct 409

<210> 13265  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13265

tgacagggtc atgcactctg aattgttcgc tttacctcaa tgtgttgga ctcacatntt 60  
 tcagattctg catagtttgt gaaggcaatt tgtcaaaatt ttgggactga gcttgggtca 120  
 actgagtagc catttgcccc atctgatttg tcagactctg aatagaggct cttgtctctt 180

gctgaaattg catattctgg atggacattt gtctcactaa ctcttctaag gaagggtgag 240  
gaggagcctc agttgcttgt tgtcattggt gtgactgttg ttgttggtgc tgcattggag 300  
gaggaacata tggcttggtt ggactagcaa cattctggaa aggagggaca ggatgttggt 360  
gttggtggagg acttgcccat cttatatctg gatgatatgt ccaacctgga tcgtatctgt 420  
ttcttgaaag atcataatta ttc 443

<210> 13266  
<211> 462  
<212> DNA  
<213> Glycine max

<400> 13266

ttaaaactaa gctgccaaga atgtaaccta taacggacgc tcttggtgggc tcatacgaga 60  
aaatctttgg tattgtaggc attggatcca tgagtaatac atgggatcaa acgttgccat 120  
attgttcatt taatccacgc aagaattgca tggctcgatc ttctgcttt cgttgagcaa 180  
tagtggtgag gactgaacaa gtgcacttaa tagtgcaaga acaaatggga tcaggtgtga 240  
aattctcgat ttcgtcccat atgatgcgta gttcatgaa atattccgta acagagagag 300  
taccttgctt catcgatgat gttcttctga gaagatcaga gatccccctg cgcgtatcga 360  
gacttcaaat cactctagat ttcttctact ttgtccattc atataatact ttgtctaatt 420  
gaaatggata ccgaatgaac gatccaagac accaccatgt ta 462

<210> 13267  
<211> 464  
<212> DNA  
<213> Glycine max

<400> 13267

tactcagccc tgtatggatt acacatatac tcgaatcgat taccagagct ttttttcaact 60  
atatattcgc aacagtcaca tctgtttatg tggttcttga atggctatca aaggcctata 120  
tatatgtgac ttaagacacg aattcgatga gagtttttca gaacaaaaag gtcttatcct 180  
cttataaagc aaaatcgtct aatcctctta caaatacctt ggccaaatta ctogtgattc 240  
aataaggaaa tatctgagtg ctcacattgt tcaatctatc tctttcaaca gagatcacct 300  
cttctcttct tctatattct gaaaagggat taagagaccc acggtctctc gttgtgaaac 360

aattcttaac acaaaggaag gaattgtctt gtgtgttttag aacttggtta aggaattctc 420  
aatatagtgg aactctcaag cggttgattg ggactggact ttgc 464

<210> 13268  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 13268

taaacattca atttcgagcg tctcgttata ttacgggact ctatcagaca tcttagtaaa 60  
aacttattgt cgtatgaatt ggcttaaagc ttaaaccattc aactttgagc gtctcgatat 120  
attacgggac tcaatcagac ttccgagtaa aaagctattg ccgtttgaat tggctcatag 180  
gttcaacatt caatttcgag cgtctcgatt tatttcggta ctcaatcaga catccgagta 240  
aaaagttatt gtcgtttgag ttggctcaga ggttcaacat tcaatttcga gcgtcccgat 300  
atattacgtc actgaatcgg acatccgagt gaaaagttat tgcgtttga attggctcag 360  
agcttcaaca ttcaatttcg agcgtgtcga tatattacgg gactcaatca gacatccgag 420  
taaaaagtta ttgtc 435

<210> 13269  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13269

gatgtccgat tgagtctcgt aatatatcga cagctcga aaattgaatgtt gaagctctaa 60  
gcctattcaa acaacaataa cgttttactc ggatgtccga ttcagtgcg taatatatcg 120  
ggacgctcga aattgaaagt tgaacctctg agccaacca nacgacaata actntntact 180  
tgatgtctg attgagtacc gaaatatatc aagacgctcg aaattgaaag ttgaacctat 240  
gagcctattc aaacgacaat agctntttac tcggatgtct gatggagtcc cataatatat 300  
cgagacgctc aaagatgaat gttgaagctc tgagccaatt catacgacaa taacgtttta 360  
ctcggatgac tgattgagtc ccgtaatat 389

<210> 13270  
<211> 407

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13270

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 cacagtggcc aaggatgcat gggagatcct gaaaaccact catgaatgaa cctccaaagt 120  
 gaagatgtcc agattgcaac tattggctac aaaattcgaa aatctgaaga tgaaggagga 180  
 agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240  
 gggagaaagg atgacagacg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300  
 atttgacatg anagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360  
 tgaactcatt ggttcccttc anacctttga gctangactc tcggata 407

<210> 13271  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13271

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 tccatgtctc atcaaatccc aatctatgca acatatgaaa atggaatctc caagaaaaat 120  
 aatcatactc cttttcaaag tctaccttga accagagaca cttctttttt atcctagctt 180  
 catccactac ctcacatctt ctttttcaaa ggccacpaat acaataagca ataattgtct 240  
 cccaccaaag acaacacatt gtctattatc aattacatca cctaaagccc ttctcattct 300  
 attggctaac acttgtgcca aagatttata caaacatcct actatagaaa taggtctaga 360  
 ttctcccaag cntngaggat ttttacattt agcaatccaa ataataaagg agggaattat 420  
 atctctaggt aacaccccat gtgcatggaa ttgctntaac tacttcaata agtctccc 478

<210> 13272  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13272



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gagtttatga gcaactcatg attcaacaga tgtgacatgg accattgctg ctatgttaag 120  
aaatatacta atagttatgt tatecgtatc gcgtatgttg atgacatggt gattgcagga 180  
tctagtatga cataaattaa cattgtgaag cagtagttgg tagaaaaactt tgaaatgaag 240  
gatcttggtc cagctaaaca aatccttggg ataagaattc ttagaaacag atcagaagga 300  
atcttgaagt tgtctcagga gaaatatata cacaatttgc ttgacaggtt ttaccttgaa 360  
gattctaaga ccaggaatac ccttttggga tcttatttga agntttcaaa gaagcaatct 420  
ttgcagatga tgaagaanaa tgttacatgt caagagtacc atatgcatca t 471

<210> 13273  
<211> 241  
<212> DNA  
<213> Glycine max

<400> 13273

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tcccatcttt agtgatttgt aactatggt cagcaccagc cagcaccatt ttgataggta 120  
tttcttgca aaatacaaag ttcattgtct caagtagtta agggataaat aatctgtttg 180  
atacatatac ttttctgttg tcaattaatt atataatgca ttgtcatgag catacattaa 240  
c 241

<210> 13274  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13274

tcgaacagtc atcacttcat tctcatggcg atagattatt tcaccaaag ggtcgaagcg 60  
gcttcttaca ccaatgtcac gaagagtgtg atggtcagat tcataaagaa ggaactgatt 120  
tgtcgatagc gactccctag gaagatcatt actgacaatg gcaccaatct gaataaaaaa 180  
atgatgcatg aaatgtgcgg ngatttcaag atccagcatc ataactccac cccctatcgg 240  
ccaaagataa atggggctgt ggaggctgca aataaaaata ttaagaaaat tattcagaag 300  
atgacggtgt catacaaaga ttggcatgag atgttgcctt ttgccctgca tggatatcga 360

acctcggtag gaacttctac tanggcggca actctgtatt ccttggttta tgggatggaa 420  
gcggtactcc catttg 436

<210> 13275  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13275

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cgcaagagtc tgtggtttat gctcctctac tgaccaccat acagacctct gcccttccat 120  
gcagcaacct ggagcaattg agcagcctga agcttatgct gcaaacattt acaatagacc 180  
tccttaacct caacaacaaa atcaaccaca gcagaacaat tatgacctct ccagcaatag 240  
atacaacctt ggatggagga atcacctaa tctcagatgg tctagccctc aacaacaaca 300  
acagcaacct gctccttctt tccaaaatgt tgctggccca agcagaccat acattcctcc 360  
accaatccaa caacagcaac aaccccagaa acaacaacaa gttgaggctc ctccgcaacc 420  
ttcctctgaa gaacttgtga tgcaaatgac tatgcagaac atgcagtt 468

<210> 13276  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13276

gtagcccatc atctttatat cgtacaacac tggtgatgtg tctactatca tcgacatcag 60  
tgttctctcc gtcattgagg tgccacttga gctgccaagt ctctccacct ttgggcgtat 120  
tcttttgaaa gattcgtgcc ccttttttgc acatgttctg tagttgcac ctatccgaag 180  
acattatact gaaactgcct aacgatggca accactatgt ccttccaaga atggactcgg 240  
gaaggttcca aggtactgta ccaggtaaca gctacccag taagactttc ttggaaggaa 300  
tgtattagca attcctcatc ttttgcatat gcgcccatct tccgataata catctttaga 360  
taggacttga tgcaagtagc cnccttgtac ttgtctaagg ccaacacctt gaacttggaa 420  
agtgtgatga tattgcgtac taggaacaac tct 453

<210> 13277  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13277

ttacgccaaa gaaaaacaat gggaagatgt acaaagtttg agaaagatga taaaagatgg 60  
 caacatgaat aagttgccag gttatagttg ggttgatatt aaaaataaaa cccatgtggt 120  
 tgggggttgaa gactgggtctc atcctcaaaa gaaagaaatt tatgaaaagc ttgataatct 180  
 tcttgatcag ataaagcgaa tcgggttatgt tctcaaaaca gaatcagttc tgattgacat 240  
 ggatgacaat ttgaaggaga agcttcttca ttatcacagc gagaggatgg ccgtggcatt 300  
 ntcattacta acctgccccaa ctggtatgcc gatca 335

<210> 13278  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13278

caataataga naatactttt ttctcatcgt ttatttacga cattctacat cgttttttaa 60  
 accgatgttg aaagtaccaa tgttgaatgt attattgtta acatcgattt tgaaaatttg 120  
 atgttaacat aaaaataacta acatcagttt tctcaataac cgatgttata tacaaagaac 180  
 taaagaaaat aagtgtatgc atgatgaaca ttgacatctg ttttctataa aaactcgatg 240  
 taatgtaatt tattaacatc ggttttctat ataaaaccga tgtgaacgtc catcatctat 300  
 acacttattt tgctgtagtt agttatatat aacatgcggt atctataaat aacagattgt 360  
 aaagtttgta tatt 374

<210> 13279  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13279

ttcttttttgc tttacaagag gctgagagaa gatatgatct ggctagagct gcagacctgc 60  
gatatggagc aattcaagag gtggaaactg caatacaaca accttgaggg agcactgaag 120  
agaatctgat gttgactgaa acntgtggac cggagcaaat agctgatggt gtgagccgct 180  
ggaccggtat accagttaca aggcctttgcc aaaatga 217

<210> 13280  
<211> 401  
<212> DNA  
<213> Glycine max  
<400> 13280

gcttttgaga cccactgcag gaagctattc tcgaactaat atgcttcaga tgaaatgggt 60  
cattttgtaa tttctcaatt cagttgtcaa ttctggacga tttctgtta atttatectt 120  
tcacttttgg ttatagatga cttgctccac ggttgaactc actgttcaat atgtggagaa 180  
gttgagggaa atgattccac tttatgaaat tgtcaatgaa cgtatcaaca tcaatgacat 240  
ttaatgggca cagcactgta ttatttcaag ctctcatata gcaatgcaag tgatgggaag 300  
ctattgtgat agatctccag acgtaactgc cactctagca attgcaaatt cttcgaacta 360  
gctgatttat tagtgatatg tatcttgagg ctacattaca a 401

<210> 13281  
<211> 446  
<212> DNA  
<213> Glycine max  
<400> 13281

acactataat actcagctag agccaattca acgacaatag ctttatactc tgatgtctgt 60  
atgagtcccg ccatatatcg agacgctcga aatttaattg tgaagctctc agccaattca 120  
aacgacaata actttttact cggatgtctg attgagtcct gtaatataac gagacgctcg 180  
acattgaatg ttgaagctct gagctcattc aaacgacaat aactttttac acggatgtct 240  
gattgagtcc cgtcatatat tgagacgctc gaaattgaat gttgaatctc tgagccaatc 300  
caaacgacaa taacgtttta ctcgatgtc tgattgagtc ctggaatata tcgagacgct 360  
caaacatgaa tggtgaagct ctgagccata tcaaacgaca ataacttctt acacggatgt 420  
ctgattgagt cccgtcatat atcgag 446

<210> 13282  
 <211> 296  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13282

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 ccaatttaga gtaagattct cttgtggttg aggtttgtct atgaggggtg agtttgacta 120  
 aaatccaatc tctaattctg aagcttacat ctctgtctatg attattcgca aaatgcttca 180  
 tggttcctat gcctcgagca acttcttntc tgaagctttg aacataacct cttgattaac 240  
 caagaaatca tcaactgctt cgaccttcga tgaccccata atgtattgag ggggac 296

<210> 13283  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13283

agcttccatc aagttccctc caccttggan aggatntgac ctcaaattccc gaggtttttc 60  
 atactctggg ctccctccct caacacctgt aaaaagaaca aaaacacatg tattagtggg 120  
 gtttggtttg ttgaagtaag gtaagggtctg aaaattcatt tcctgngcat cttcccatga 180  
 aggaacatgg tttctcatca actcaatgag tgggtgctaca agtatagaaa aatatggggac 240  
 aaaccttttg taaaagtttg ttaagtcatg gaagcccaaa attnttctta tacttggtgg 300  
 agtggggcac tcangagtga cttttattct cttaaggttc atgggaaccc cttgaccact 360  
 atttaaaaaa ttaagganat taatgcaata nagegtacct ttttctataa ttntgtgttg 420  
 attattccta caaaataata cgacaaacct aaagtg 456

<210> 13284  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13284

attgagtctt gtaatatatc gagacgctcg tacttganaa caaaagctcg tggcatatgc 60

aaaccgcaat aactnttaac tcggatgtcc gactgattcc cgtaacatat cgagacgctt 120  
gtaattgaaa acggaagctc tgagcaaatt ctaacgacaa taacttttta ctcggatgtc 180  
cgattgaatc cagtaatata tcaagatgct tgaaattgaa aacagaagct ctgagcanat 240  
tcaaaagaca ataacttctt actcggatgt atgattgagt cccgtagtat atcgagacgc 300  
tcgaaattca gaacagaagc tctaagcaaa ttcaaccgac gataactgtt tactcggatg 360  
tctgattgag tctcgtataa tatggagaca c 391

<210> 13285  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13285

ctgcacgcat gcaagcttgc taacccatgg aagctcctaa tatcttccac attctgngat 60  
ggccttgatt ttctcaagat ccacttggac cccatttcta ccaactacaa accgtaagaa 120  
aactatatta tccacacaaa aaagtacact tctctatata tgcatagagg gtgtttttcc 180  
taaggactga aataacttgc ctgagatgtc ctaagtgatc atctaggctc ctactatata 240  
ctaaaatata atcaaaaataa gcaactacaa atctacttat gagatccctt aagacatgat 300  
gcataagcct cataaagggtg cttgggtgcat tagtgagccc aaaaggcatc actagccatt 360  
cataccaacc aaacttgggtc ttgaaagcgg gtntccattc atcaccc 407

<210> 13286  
<211> 443  
<212> DNA  
<213> Glycine max  
<400> 13286

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tttcctttga tgagtctaata gctatttctc caagaaagga tatttttagat gatgttacag 120  
aatctttaga acaaatgcac attcatggac aagattctaa aggaagaagt caaatcaaat 180  
gatgaacttc caaaagaatg gaaagcttca aaagatcatc cccttgacaa cattattgggt 240  
gatatctcag aaggggtaac aactagacat tctcttaaat atttatgcaa taatatggct 300

tttgtgtcta tgattgaacc taaaaatata aatgaagcca taatagatga tcattggata 360  
 gtagctatgc aagaagaact aaatcagttc gaaagataca atgtgtggga attagtaaag 420  
 aaacctcgaa actaccctat cat 443

<210> 13287  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13287

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 atgggtacaa taaccgaaca aactcaccac attacggtgc tgtacacgcg ccaacgactn 120  
 tgccctcgtta acgaactgcg atcttccttg attcgatcta tgcgataact tcttcacgcg 180  
 attctctctc ccatcatatc aatttaccct tcacaaatca gtataatatt ggagagaaca 240  
 catattagaa taagtctcag attgtttgct taccaagtaa aaccagatat tagtaacatc 300  
 tatttatccg tgttgaactt tctccaaaat tataattcca attcgtcaac ctttctgggt 360  
 atagaaaatn gcttccttaa tccctaataa aattcatt 398

<210> 13288  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13288

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 catcacatta tggtagaggt aatntatgtc cataataggt tttaattttg acctagttc 120  
 ttttgggagg gttgcatcat gaacttatgc ccatacacat tattgattta tttcattata 180  
 ttattagacc ccctgagctg ctgcttggga caacaaggta tgggccacct gtagatatgt 240  
 ggtctgtagg gtgcattttt gcagagcttc ttcattggga gcctatcttt cctggaaaag 300  
 atgaggtag tgataatatg tataattctt gtctgatatt acgggttaaag ctaaagtgg 360  
 tgtgaaattg tattgaggcg aggcattgct ctatccagta tggtatcact actcagtata 420  
 caagatgtc 429

<210> 13289  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13289

agctngtcac gaaacagagg gttattcttt atcaatttct tcagtcagcc agcattatgt 60  
 cttgtgcaga atttgtttct ccatacttgc cagcaacaat atttttccca attcaatttt 120  
 aactagcaac aaaataaatg actaagcaat aagcaaattg gaaaaaaata acacaacagc 180  
 caaacaccac agataaccta cttgtccaat gtttctaagt acttctactt tcgtatctca 240  
 aagaagatct tcatggagta tttattgtca tccaacttca taaaaccaga caagtactta 300  
 tccaccttat cccactccct atttctcacc atatcctcaa aatacctcat gttaaagaaa 360  
 aatcccgatt attgctcctt caagttcaca aattcacaaa ttcacatata taataacaaa 420  
 ttagactana tata 434

<210> 13290  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 13290

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 ccacacagac ctatgtcctt catggcaaca atctgaagca attgaacagc ctatatctta 120  
 tgtcgcaaac atctacaaca gacctctctt acctcagcat caaaatcagc cacaacataa 180  
 taactatgac ctcttcagca ataggtacaa tcccgaatgg aggaatcatc ccaaccttat 240  
 atggtcgaat gcttcacaac aacagcaaca acaac 275

<210> 13291  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13291

gcttgatcan attcaacgac aatagttttt ctcggatgtc caataaagtt ccgtaatata 60



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 actcggatgt ccgattgact cccgtaatat atcgtgacgc tccaaattga aaacagaagc 180  
 tctaagacaa ttcaaacgac aataactctg tattcggatg ttcgattgag tcccgtata 240  
 tatcgagatg ctccatattg aaaacggaag ctcgatatcaa aagcaaacca caataacttt 300  
 ttactcggat gtccgattga gtcccataat atatcgagac gctcgaaatt gaatacggat 360  
 gct 363

<210> 13292  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13292

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 ccattacaac ttctcttatt ttagtgcaag ctcttccttt aaagagtatt tcaatctgca 180  
 aattatccag agcaaaaagt gataataagt tacatccatt gaaatatgcc tcctattttc 240  
 taattaacca natgcaaaac agccacaaca acctataatg catgacctga acacaatata 300  
 tcagacatct tgtacttgtg acatcattat tgccatggct ttggtataat tctatcacat 360  
 gctgactgaa aaattgttgg gagtataact agtaagagac ctactttaac gaggagaaaa 420  
 gaaagtat 428

<210> 13293  
 <211> 500  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13293

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 gctnttagaa ctcacccta ctggaattcc aagataagag aaaggaattt ccaactggct 120  
 acaattaaga aatagagctg catccctaca ccaaccact gatttgcca cacaaccgaa 180  
 atggcttttg gcataattta tcttgagcct agaaaccatc tgaaaacacc tcaggataat 240

ttttaggact ctaacattat ccttggtggc agccccaaaa aatagagtat catctgcata 300  
 ttagagtatg ttaacttcct ccttttgact tcccacttgg tagctgctga acaggatcct 360  
 agatatggct gtgttcacat nacctgtaag gccttccact actatatnga aaagcagagg 420  
 tggtagggaa tcaccctgcc ttaagcctct cttaggggat cacccttcct agtngnactt 480  
 ccatttaata aaatggatat 500

<210> 13294  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13294

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 atgcaagctc cattggagct tgtangccta ngatcttctt catcaatgga ttcctttgct 120  
 tcttggaaga taaaaggcag cggaatggag aaagaagaga gagaggagac tccacttcaa 180  
 ggagaagata agtctagaag aagctcacca ccataggagg ccatggataa gagcttggag 240  
 gaagaaggag atgaatgaag ggaggggggag agaagagcac gatattntgt gctcaaaaag 300  
 agctctgana tctgaagtta atattcaa atgatcaatagt ngaaaaaatg cacacacatg 360  
 acctctatta tagcctaagt gtacacaaaa ttggaaggaa ttcaaattca cttgaattga 420  
 aatgaattg 429

<210> 13295  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13295

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 cnttctact aaataactgc tgtacagacc tttggataga gctgtctctca tcatgccagt 120  
 caagccttca gccacaatat tgaaaaggaa aggggctaag ggggtcccctt gcctcaaacc 180  
 tctagtgggg gaaaattcat ttgaggggct gccatttatg agaatggata tagaagctga 240  
 ttgattgcaa gcattgatcc atttctctca tataggacag aaccccatc tgaccatcat 300

ataatccaga aagttccatg anacagagtc ataagccttt gcaaagtcca ctttaaacac 360  
 caaagctggg ttcttacttc ttttagcttc ctctattggt tcattgagaa tcanagttcc 420  
 atgaaagatg tgtcta 436

<210> 13296  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13296

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 agtggtcttg attcaatctt gaactgattc tttgattctt gagatcatca tctttgttat 120  
 cattaattgt tcttgatctt tgagctttnt gtcacacct ttgtcatcat cagaacttct 180  
 ttgaatcaat cttgattcat catgaagctt gcttctacaa ttatatcctt actcactcta 240  
 gaaccatcaa acaccatagt tttatcaaag cagcttaaca agacatgggt ggaagataac 300  
 cagtcctaac ccagaataac atcaatttgg ctgagaggcc aacanattag atcaatcact 360  
 aatggtctac cagaaatttc cacaggacaa ttc 393

<210> 13297  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13297

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 tcatttggtg tcatgactcc tatctcaaac tctccacca ataattctag taaccaatta 180  
 atggtttctt acatatcctt ctatctatat atattcaaaa ttctcaagag ttttcttaaa 240  
 ccactcgctt ctcaaataca taccacaacg ggtatttggt tacttggtat tagagaggca 300  
 ttattgcagc anatcaagca ttttcaaaag ctaatgatgc accanagggc tatcttgcca 360  
 tatatg 366

<210> 13298

<211> 463  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13298

agctntatac ttcacaaaga tgtcagcaac atcagatnta aacttcatag aataaatcca 60  
 acacattctt gaataatcat caatgaatgc aatataatac ttactgtcat tcaatgatgg 120  
 tgttttcatg ggtcctccca catctgtgtg tactaactgc agcttttgtg aagcccttga 180  
 agtcttggtt tgtaggaag tctgggttgc tttccatatt ggcaagcaac acattntgga 240  
 ggtaaattgt ctaattctgg catatctttc actatattgt tctttctcat gaaaagtagt 300  
 gcagcatgat gaaagtgcc caatctcttg tgccaaagca ttgtattatc atcctctatg 360  
 tgtacagctg ctngctgctc ctcatctatc aagtccaaga caaaactctt gcctttcatt 420  
 tgaactntga tcatttctat tagtggtgca tctttaatca cac 463

<210> 13299  
 <211> 226  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13299

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 tgatgggtgcc tatgncagtt gaaagccttg gaggaagat gtatgcctat gttgctgtgg 120  
 atgatttctc cagatttacc tgcgtcaact ttatcagaga gaaatcagaa acctttgaag 180  
 tattctcaga gttgagtcta agacttctta gagagaaaga ctgtgt 226

<210> 13300  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13300

agcttcgatg atcagttagg atggtgaagt ggtgccctag tangtactgc caccacttct 60  
 tgacggcggc ggtgatggct gctaactcac aaacatatgt tgacgaatcc attaacttgc 120  
 ggcaaaaacta tntgctaaag aatgagatgg ggtggcctcc ccgctcaac actgccctca 180

tgccggaccc cgacgcgttc gtcaccacaa cataaggaac tttgaaatta tgtaaggcga 240  
 gaacacgcgt tgccgagata gcgtccttga ggttctgatt agccattcat actttgaaga 300  
 ccactaaact g 311

<210> 13301  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13301

agcttctaga ctntatacaa gaatgaagtt ctgataccac ttgttaaaca agtggcctca 60  
 gatattcttaa gaaggcgggt tgaattaaga tattgcaaac tatttcccca attaaaaatt 120  
 ctatttcaat ttcaatgcaa gttgcaagtt cccttaaaaa tgaactttta aataataatt 180  
 cacatagaaa aatctgaata taaatataaa tcaataataa atgaaattct gataccgatg 240  
 acagatgtcg taccggatgt cagcacatca cacttcagaa catgcagatt atatttgaca 300  
 gtatgaacag attanacaag ttaataacac aagagaattg ttaaccagtc tcggtgcaac 360  
 gtcacctaca tctgggggct accaagccag ggaggagatc cactaaaata gtgttagttc 420  
 aaagatctaa cagccactgt ttacaacctt ctcacctaac cactacccat gcaacctcta 480  
 ccta 484

<210> 13302  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13302

agcttgtaag tgtgggatct gctgtttatg gaaagctctg gtgcagtaag cacacactat 60  
 acccaaaagg tatgccagta ggatcttttc tgggtttata ttatattaga ttatctattt 120  
 cttggaactt acttgtccag tttttggtat acttttgaag gattcaagac tcgagttaat 180  
 ttctctagca ttcttgatcc aacaagaatc tgtacctata ttgctgaagt cattgatgct 240  
 ggttgtcttg gacctctttt caaggtatca tgccctaacca tgtttctgtc ttacgtctga 300  
 aaacgaaaca atattgacaa gtcactgggt cttgataata ctggaatcca tgtagtcaac 360

ccaccacaat atggtgtntg ttgcttggtg tgacattttc ag

402

<210> 13303  
<211> 332  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13303

ctctatggga ggtgactatt tatcagacac aagtctatta tgagacattc ctatgagagt 60  
tnttaatggt ggtctataag cccaaagtgc attatctagt ttaattgccc aatctttcct 120  
agatgcacta actgggtttt caagaattat ttataactcg ctattggaca attctatttg 180  
gcccctagtt tgtgggtgat atgggggttg aagcttttga gtcacccata tttagccaag 240  
aggccattaa acaacttatt acagaagtca gcgcctttgt cactaatgat tgctcgaggt 300  
gtgctaaatc tgggtgaaaa tattttcttt ga 332

<210> 13304  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 13304

tggtcataac ttatcacacg gaggtccata tgaggcgc ataatatcga gacgctcgaa 60  
attaaacaac gtatactctc aagagattca tatggtcgta acttatcaca cggaagtccg 120  
attcaggtgc ataatacacc gagacgctcg aaattgaacc acgaatgttc tcgagaaatt 180  
caaattgtca taaattttca aacggcagtc cgatttaagc gcattataca tcgagaatct 240  
tgaaattgaa caactgaagc tatccagaaa ttcggatggt cgttacttgt caca 294

<210> 13305  
<211> 228  
<212> DNA  
<213> Glycine max

<400> 13305

agcttcataa ttcaatttcg agcgtctcaa tatattacgg gactcaatca gacatccgag 60  
caaaacgtta ttgtcgtttg gattagttca gagcttcaga attcaatttc gatcgtctcg 120

atatattacg ggactcaatc agacatctga ggaaaaaagt tattgtcgtt tgaatttgct 180  
gagagctcca cattcaattt tgagcgtgct cgaaggatta ccggactt 228

<210> 13306  
<211> 489  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13306

gcttctctcg ggccattcct gcgaaggcta tacattggaa agttagttta caatatatat 60  
aacaatcatt acaaacaagg gccaaacaac acttctcatg gcacgagtgt caacatgcac 120  
tatataaaat aatcatattg gggtcgtgct attttatgac acatacgtat ttgcacacat 180  
aaaaattttg tgtgaagcat tttaagacac ctatccatgt acatatnttt tgacaaaacct 240  
tttcatgcta catcctatat atatacacac atttnttggg aggcttcttt tgttacctac 300  
tcacaaatac acatatnttg agaaacactt ttacgctacc catccaacac tttgtaaggc 360  
acttcatgct atatatattc atattatgca aggcatnttc atgctatata tattcatatg 420  
ttgcaaggca tnttattcaa catattgcaa ggcatttcca tgctatatat attcacatat 480  
atacatacc 489

<210> 13307  
<211> 427  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13307

cttgacagtg cctgatttat tgaccagcta ttntgcaccc tttatatctc tacagaacca 60  
aatcaactct accattntaa catacttcaa acagcaatgc cgaacagatt ttattagcaa 120  
gatagaatgg ttgctttcat taaacatcct tgtcacctgt ggatggtttt gttactatgt 180  
aagtaagcta atccccgagag aatatgcctt gtaaaattgc aaaccacaga ttctgtcata 240  
gctccacaat ggtcacgcat aaatttactg attgatcccg ggtagacata ctccatatat 300  
atgtacatat gatcgccaac ctgaaaatac aaatgcttca aaacgtcaat ctaatttact 360  
atgacaaata tccttaactt ccattgggtg atcgatatac ttgaacaaaa ctaacaacaa 420

<210> 13308  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 13308

atgaagacct tcttaattat tatgctatca tggaacatcc tgggtgtgttc tttgtagaac 60  
 ctgacattct catacactat taggcggatc ctcactaac tcactcagtc gctactatct 120  
 ttctcacca gcttgatcca taaagaagtt gcaactcttc actgcccaat atgctttggc 180  
 tcatttcaac tagaagatga catgcctttc caaacacaac ccgataatga gacattctta 240  
 tgggtgtgtt gtatgaagtc ctatgacca aagaacatct tctagcctgg tactccaatc 300  
 tttctgcta ggctgcacaa ttctcgctaa aattctcttt a 341

<210> 13309  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13309

gcaatcttga aattgaacaa cggaagctct tgagttactc aaatggtaat aacttggttac 60  
 acggaagtcc gattcaagcg cataatatat cgagatgctc ganattgaac aacgaatgct 120  
 ctctgaaat tcaaatggt cataacttgt cacacggaag ttccattcag gtgcataaca 180  
 tattcgagac gctcgaaatt gaacaaccac agctctagag aaattcaaatt ggcatatct 240  
 tgtcaaacgg aggtccgatt cagccacata atata 275

<210> 13310  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13310

agcttaacag ttaatntact aattaaatat ttctaacta ataagtcagt taacataaaa 60  
 aataataatt ntgtaacttt taattaattt ttcaattttg atcaaaaataa tttatcaatt 120



attttgatca anagttacta tagaaaatag ataaattaaa attaaacaca tttaaatact 180  
 gtcataaaaat atatactatn ttttcttcaa tttattttta attacgagga atttatattg 240  
 attagttntt tctttccatg ttcttcttta tttcccaaatt aaggcaacat gacaccacaa 300  
 agcacgtaaa tttaatgata aagaattatt atgggtttaac cccgataatt cannatccga 360  
 aaattagcta tgactactac aaagttgggt ggaataatat tatttatcct taaatttact 420  
 aaatttactt attaaaaaag cattcattt 449

<210> 13311  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 13311

cattatcttc atgattagat aatacacatt tcataccagt gcatgacttc aagtcacaa 60  
 agtaacgatc tttagttaaa atcactaata tgatactcat gcatacgac aagtaatata 120  
 actgcctacg cgtttaagag agaattgtgtg acagggatga aagaaaagat atagtggata 180  
 tttaagattt taaaaggaag atgggtgtact tatcaaaagg gtgatacaat tagcaagttt 240  
 atgtaaaaag actaaactta ccatcttgta acagctggca aataaataaa gaagcttatt 300  
 gaaataattt ttattatata gaatttatta tatagaattc acttctaagt catttaagtc 360  
 cttcagaaat atagacggat acacatgcat atagtattta acaacattta ctattaataaa 420  
 tcaacaagac 430

<210> 13312  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13312

gtgtatatta aggatgctat tgaagttgtc ttattgatga ttgtagggtc ccatatccaa 60  
 tctttttata caactttata tattttaagt tctgattntc tgattgtaga atttcatctt 120  
 taaactatta ctcttggttg atggttcaac taaatgtgaa cgataatttt taacaagaaa 180  
 atcccgccag ggccaatgga catattnta atgtgggata cccaaacaat gaggttatag 240  
 ntaggcagct tgctgaaatg atgactcacg ttaataggatt aacgttgatt gtttgatcct 300

attagaattt caacatggta tctgggacca ttcaacantt attntcgttc aattctgcaa 360  
gtttattc 368

<210> 13313  
<211> 281  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13313

aaatgttattc tatataaatn tttaatgtaa naaaagatgt tattaacaaa atgtcatcta 60  
attctgatcg gaattgaagg aaaaaataaa ttatttgaat ttatacttga taatttgatt 120  
aatttcagat taaattattc tcaaaatata attctaaata tatttgcattc atgatatacct 180  
tcctttctact tgaagttatt cgaanaatat attatataat ttacctgcat aattttcatt 240  
tttagcttta ttacagctaa ttctatttaa attaaatttg t 281

<210> 13314  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13314

tacctgatg aggatgttcc atatgttctt aaaactggac tgattcattt gcttccaaag 60  
tttcatggcc ttgcaggtga agaccgcac aaacatttga aagaatttca cattgtctgc 120  
tccaccatga aacccccaga tgtccaagag gatcacatat ttatgaaggc ttttcctcac 180  
tcattagagg gagtggcaaa ggactggctg tattaccttg ctccaaggtc catcacgagc 240  
tgggatgacc ttaagagagt attcttagaa aanattttcc ctgcttccag gaccacagcc 300  
atcaggaagg atatctcatg tattagacaa cttagtggag agagcttgta tgagtactgg 360  
gagagattta agaaactatg t 381

<210> 13315  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13315

ctgtgtgcta gtgttgetcc atctacttcc tgtgtcnaat tttaatcccc actgagtcca 60  
gacactgttt gaactttatt gttggaagag cttttgtcat catatcagca ggattatctg 120  
aagtagaaat cttttctatt aacacatcac cttgtgttac cacatcacga ataaaatgca 180  
tccttatatc tatgtgcttt atcctttcgt ggtacatttg gtttttggtt aagtgaattg 240  
tgctttgact atcacaatgc acaacaactt cttttttact tacaccaaga tcaccaacaa 300  
gacctttaag ccataaagct tctttcaccg cttcagtagc tgccatatat tctgcttctg 360  
tagtcgacaa tgcaacagtg gact 384

<210> 13316

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13316

ttgcttctac caatttaatc tccatattct atntgattgg atcccathtt catgtgggtca 60  
cgcatatagc gcacccact ctatcgagag gtcaaaagat ataactccta ttatgtagga 120  
gggatgaatc atatctatat cactcacatc tcttaatatg attattgtaa gcctagctac 180  
tacttttatg ataactntgt tacagatggg gtatgatagc attaaagcct ataactctac 240  
atgtaggaat gtagtaactt caaatcaagg acaactatta ccttatgatt gctatgagaa 300  
gcgcttatga tagttaaatg actattatga agcattctca tattggatct atctagtata 360  
aatatttact cctaataatt atacttgngt ggtgacttga tatctcgtat ccatgaccta 420  
tg 422

<210> 13317

<211> 278

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13317

caacggaagc tcttgttata ctcanatggg aataacttgt cacacgggag ttcgattcaa 60  
gcgcataata tatctagatg ctcgaaattg aacaacgaat gctctcgtga aagtcaaaat 120

ggtcataagc ttgtcacacg gaagtccgat ttaggagcat aacatatcga aacgctcgaa 180  
attgaacacc caaagctctt aagaaattca aatgggcata tctttcctaa cggaagtccg 240  
attcagccac ataatatatc gagaagctcg aattgaac 278

<210> 13318  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 13318

tcttttactc ggatgactga ttgagtcccg tcatatatcg agacgctcga aattgaatgt 60  
tgatgctctg agccaattca aacgacaata atattttact cggatgtttg attgagtccc 120  
gtaatatatc gagacgctcg aaattgaatg ttgatgctct gagcaaattc aaacgacaat 180  
aactttttac tcggatgtct gattcagtcg cgtcacatat tgagatgctc gaaattgaat 240  
gttgaagctc tcagccactt caaacgacaa caacatttta ctcgat 287

<210> 13319  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 13319

agcttagtaa agctaggcac taacaatctc cctctttggc tatatttgct taaaacatac 60  
ttagacactt tctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120  
cagagtaatc aagcacagcg gaaattctgc aagttgcaag tcgtttccag gatgtcaaga 180  
catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct cttactgcag 240  
catcttctat cagctactag tctttttcag gatgtcaaga catctcatgt gacatcagct 300  
ttcccttgct tccatgctct tactgcagca tcttctatca gctactagta gcttacatca 360  
gtcatcatca gcagcagcag tctcccccta aaatcatgta catacaactc cccctcaaaa 420  
t 421

<210> 13320  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13320

tactcggatg tctgattgag tcttgaata tatcgacacg ctcgaaattg aatgcttatg 60  
ctctgagcaa attcatacga caataacttt ttactcggat gtctgattga gtcccgtaat 120  
atatcgagac cctcgaaatt gaatgctgat gctctgagca aattcaaacg acaataactt 180  
tttacacgga tgtctgattg agtcatgtaa tatatcgaga cgctcgaaat tgaatactga 240  
agctctgagc aaattcaaac gacaataact ttttactcgg atgtctgant gaatcccata 300  
atatatcgac acgctcgaaa tagaatcttg atgctctgag caaattcaaa cgaccataac 360  
tctttactcg gatgtctga 379

<210> 13321  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 13321  
agcttaacaa aaggcatgcg aagtgggtgg aattcctata gcaattccct tatgttatca 60  
aacataaaaa gggaaaagggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120  
tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaaat ggtttcttta 240  
gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300  
attttcttgt tcgtgaagca catgaaggag gtttaatggg gcatttttggg gtccaaaaga 360  
ctctataaac attacaagaa catttttat 389

<210> 13322  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 13322  
gctgaattga aaatgttatt agggactgat tgatttggtc ttctttcatg tgggcgtcgg 60  
catgctaatt aatttcaaatt tcatgaatac tcatctgaat ttaagttgaa attgaaccaa 120  
aaaactagtt ttggtttagt ttagatttaa atttacttct tttgtttatt tgtaaaagtg 180  
gagataagtc gaacttattt gaaaatgcaa agaataattt aatattaaaa aattattatg 240

agaataaatt tttcttatat ttagtatagg agaataaact attttttgaa aataaaataa 300  
 aaattaatth ttatgtacta ttaatatatt attttccatc gtataactaac aaaaagccat 360  
 ttttaagtaat tttttacagt actataacat taattaactt atcatacatg atcattctta 420  
 ttggataata 430

<210> 13323  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 13323

agctttgatg caacatttgg agaggttaat gaatcaacga gatgatgcgc tccatgagag 60  
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggagtataa gagggaatga 120  
 tgggtgttct agacaaaact gaattgatga tattaaactc aacattcctc catttaaagg 180  
 aaagaatgat ccagaggcct acttggagtg ggagatgaat atagagcatg ttttctcatg 240  
 caacaactat gaggaggaac aaaaggtgaa gcttgccgtc acggagtttt ccgactatgt 300  
 tcttgggtgg tggaacaagc 320

<210> 13324  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 13324

agcttatcaa ggacatgttt ggataattta tacattccat aaaatttaat tattgattga 60  
 ataaaaatat attcttggtta taattacttt aattattatt atatataatcg tgtaatcgag 120  
 cccgcactat taagggttgt ctacaattta caaaaattaa gtattttttag tgtaaatttt 180  
 ctttttttaa gtagatttta gatagattaa ggattatgta gattttatgc aaactcaata 240  
 aactctcaat ttataactgt attatgtttt gtcgctttta ttattttcaa ttgatgtggt 300  
 attcttaaat aaaagaaatt ttattcttaa taacatcaaa tccttaataa taatattatt 360  
 gaaatattta atcgatacaa tatttatata cttgagtctg at 402

<210> 13325  
 <211> 335

<212> DNA  
<213> Glycine max

<400> 13325

gcgtatcgat atattacgag actcaatttt tcattcgtgt aaaaagttat tgttgtttga 60  
tttttcccag agcttcagtt ttcaatttcg agcgtctcga tatactactg gacacaatca 120  
gacatccgag tcaaaagtta ttgtcgtttg aatttgctca cagcatctgt tttcaattac 180  
gagcgtatcg atatattacg ggactcaatc gtagatccgt gtaaaaaggt attgtcgggt 240  
gaaatttctt agaagcttca tttttcaatt cgagcgtctc gaatactact ggacacaatc 300  
ggacatccga gtagaaagta ttgtccttga atttg 335

<210> 13326  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 13326

agcttgaaca ttatctcctt ttgggttcgc aggttcttcc atgcacggaa tccagtgatc 60  
atctcgatta caatgcaccc aagagaccat atatctaacg ctgggttcaat ctgaccaacg 120  
accgattctg gtgacatgta aaaaggtgtc cctctaaact tgaccttccc atactcagca 180  
tttgcattct ctctagtctt ggacaacca aaatcagcaa tcttcagttg ataccttgca 240  
tgatcatcag atgaaggaaa gagaaggatg ttgtccgggt tgagatcaca atggacgact 300  
ccttttcgat gaatgcaaga aagccctttg agaagcatac gagtgtagac tcttacttca 360  
ctatccgata t 371

<210> 13327  
<211> 201  
<212> DNA  
<213> Glycine max

<400> 13327

atcttaacat ggtagtcaaa gatttcgatt ctcttcttct gcagtaaatt cacccttttt 60  
tagatctgggt ctcaaatgat ttgcccatcg tagacggcag cttttccac aacgggcaag 120  
tcctgaatat ttatgtactg cattccaatt gccttgctcg tgttgtttgg catattctaa 180  
ccaaattgca tcctctgctg c 201

<210> 13328  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13328

ttcatagcta tactcgatta ccaaaactat gtaatccatt accaatgctn taaaacggtt 60  
 aaaaatgaat ttgtaagtgt gcaattgatt acacatcata tgtaatcgat tacgccaatg 120  
 ctgtaatcga ttaccagaga ggattttcga gaaaatctgc caacagtcac aacttttcat 180  
 tggatttttg aatggccatc aaaggcattt aaataggtga cttgggcacg aattttcttc 240  
 agagttttca ctgttcacaa aaggcataat cctctcaaac aaaaatctct tatcttcaaa 300  
 aattccttgg ccaacacttg tgtattcaat aagtaatgag gcttcattga acatttgctc 360  
 tttaagagat ataatnctct tcttctctc 389

<210> 13329  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 13329

agctttcagc aggaaagcta agtgtgaagt atgttattct gcacaggatt ggagctgcaa 60  
 actgggttcc caccaatcat acttccactg ttgccacagg tttgggtaaa tttctgtatg 120  
 ctgttggaac caaatccaaa tttaattttg gaaactatat ctttgatcaa actgttaagc 180  
 attcagaatc atttgctgtc aaattaccca ttgccttccc tactgtatta tgtggcatta 240  
 tgttgagtca gcattcccaat atgttaaact acactgactt tgtgatgaag agagaatctc 300  
 ctctatccct gcactataaa ctgtttgagg ggacacatgt cccagacatt gtct 354

<210> 13330  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13330

gctagcttat aggaagcagc aacaccgttg gcattcttgt cttatgcaac atnttaggat 60



gcgccttcca caattgcgag atctatggtc tttctgatac ttggcttgaa gtattattca 120  
 ctagtgaccg aagaaaagca tattctgata agttgcaagt atgacttata ataggcactt 180  
 aaaattctct atcactgcat gtgtctccat ggaagaaagc aaacttaata ctgctatttt 240  
 ttctactgag gaaactgaac ccaccctttt actccttcac cttattatgc ataattcctt 300  
 cctctacat g 311

<210> 13331  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 13331

agcttgaatg ctcatattgag cttatatgca tgttatttac acacaaaggg aaagggagag 60  
 ataactgacc aaatcttttc atggctattc ttccagaaga acgctcccct gatgtagttt 120  
 cgtttatagc ttggaccatc tcatttttgc tgacatatcc atccttggtc ttgtctaaga 180  
 atacaaatgt atcaacaaaa gtctcaaagc tgccctccag ctttggcatc ccaattcgtg 240  
 atttctaggg aagtcattgga aaaaaatttg aagatgtagc caaacatgga aattcaaggg 300  
 ttattgttat caatgcaagc atgatggaaa tctatgcttg cctgaagaaa tgcctgaaa 359

<210> 13332  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 13332

agcttctcta ttagctgcac ttgactacta tgtttgcttg catagagaca tcttcatctc 60  
 tgcttcccca ggaaatatgc acaatgcatt ggtgagttgt gctatatgca tttttagatg 120  
 tctctaattg aaggttaaat tattaactag gtctgtacta tttgggaatt ttcaaatagt 180  
 tctttatact tttattttta attgagtccc taaactaaaa aggtattccc tatagttttt 240  
 tggcagtttc aaatcgccag aaaatgacaa tttatggcgt cttaaaaaga ctattgactc 300  
 aataaaaaaa attcaagatc aagatctaatt tttaaaaaaa aaa 343

<210> 13333  
 <211> 371

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13333  
  
 agctntgatt tccattgttc cggaaacctt tcttttctca tgtgcacca aaccaatct 60  
 tcgggttcga agacaccttc tttctccctt tgttggttg tttagcatag cttttatctt 120  
 tcctctcaat ttgatctttg actctctcat gaagcttctt cacatagtcc gcctttgctt 180  
 gaccttcttt atgcttaaaa acagaaacat tatgcatagg caaaagatca agaggagtta 240  
 gtgggttaaa accataaaca acttcaaaag gagaacaatt agtggtgcta tgaacagctc 300  
 tattgtaagc aaattccaca tggggtaaac aagttttcca agtttttaag ttcttcctca 360  
 aaactgtcct a 371

<210> 13334  
 <211> 301  
 <212> DNA  
 <213> Glycine max  
  
 <400> 13334  
  
 agcttcttgt tacaactaga ggaagagaag ttgggtgctg cttcacaagc acctttccaa 60  
 cgagagggta ctttggacaa acctgtgtct tggaaactga tgtgttcagg ccatattcct 120  
 gtatcaagga ctctatgat cacatctgag gccaaagttg aagcactcca aagtcctttt 180  
 ccattctgta agccaagaaa atgggagctg tattgtgtgt gaaggcttat tagttcatca 240  
 tgtatggctg aaaggaaacc atctatttgg ttcaagtact caagctgctt atatgaaagt 300  
 t 301

<210> 13335  
 <211> 336  
 <212> DNA  
 <213> Glycine max  
  
 <400> 13335  
  
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 aacttcaaca tttaatttcg agcgtgtcgc tatattacgg gactatatca gacatccgag 120  
 taaaaagtta ttgtcgtttg aatttgctca gagcttcaac attcaatttc gagcgtgtcg 180

atatattacg ggactcaatc agacattcga gtaaaatggg attgggctgtt tgaatttgct 240  
cagagcttca acattttaagt tcgagcgtct cggtatatta tacgactcaa ttagacattc 300  
gagtaaaagg tattgtcggt tgaatttgct ctgagc 336

<210> 13336  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 13336

catatgtact ttgtaatgtc tacctttttg attttatcat agattattgg ggctaaaata 60  
tgcgcctggg aataggtatt ttcttaaagc agaataggta tggtagagaa tagttcaaca 120  
tcagcctaca cagtatccaa catcagagga gttgagtatt gggaggatca agtctaaagc 180  
ttgtgatctt cgggggcacc atattgcacg aagagtcctg aaagattact atgctaaggt 240  
ctttctctat tgtacctctc ctaacacata cacacattag tgctatgtta tacctgttgg 300  
cccccaacat tgattctcaa tctgtttaac ca 332

<210> 13337  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 13337

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agatcacgac atctatgcga atccccagcg acatttccta atgcccacac tgcctgtgag 120  
taccctaaat accaagggtg aatgtttaa gcttttaata aatgatagca tggaacagta 180  
caacaaggta ttgttgtctt ctgttgctcg ctgcaaatta ataatgggtt aaatacaacc 240  
acccacgca caaacatata gataccac ccccccta ccccaaaatt tctttcttaa 300  
catgcaatac ctgctcatac aactttacac cacaataagc aaccccaatt ctaaaattat 360  
acataac 367

<210> 13338  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 13338

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ttgggataaa ggtagtggtt ccatgttttc aaagcccgt aagggcata caactcctta 120  
tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180  
tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240  
aaagattttt gaaagtttgg caacgcaagt atgggggcat taattagctt ttgcttaaga 300  
acattgaaag cttcttcttg tttctctccc catatgaaac caacattttt cttgaacact 360  
tcattg 366

<210> 13339

<211> 375

<212> DNA

<213> Glycine max

<400> 13339

tagcttgagg gggggaacct tgcaatggat atgtttatgc tctatgggat cgagggtgagg 60  
gtcattcgcg gaggcggtta tgaggggtgct gcctctgcta ctgggaggtt gtatgtgtat 120  
gatgggttgt atataattca tgaatgctgg tttgatgtgg ggaaatcggg ttttgggggtt 180  
tttaagtata agctgtgtat gattgatggg cattctaata tggggactgt ggtgttgaat 240  
gaggctcttt tgcttaggaa cgatcccttg agtttcaaac cctcgttttg ttagtcgctt 300  
gatgttttaa attaggaaga taacgcggct gttccgcttt taattacatt gatcctatct 360  
ttgacctctg taata 375

<210> 13340

<211> 361

<212> DNA

<213> Glycine max

<400> 13340

atcggacatc cgagtgaataa gttatgacca tttgaatttc tcgagagctt cctatgttta 60  
attttgagcg tctcgatata ttatacgctt gaatcgaacc tcagtgtaaa aagttatgac 120  
catttgaatt tcttttagagc atccgttggt cattttcgag cgtctctata tgtgatgcac 180  
cttaatcgga cctccgtgtg aaaagttatg accatttgaa tttctcgaga gcttccgttg 240

ttcaatttcg agcgtctcga catattatgc gcccgaaatcg gacatccatg ggaaaagcta 300  
 tgaccatttg aatttctcga gagcttccag tgggtcaattt cgagcgtctc gacatattat 360  
 g 361

<210> 13341  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13341

tgaaggtaac tanatgcctt ggtaacttgg taacccatct gtgccttgaa tcataaatct 60  
 gtacttggtg caagagtcta tgggtttattc tctctgctg accaccatac aatcctttgc 120  
 ccttctatgc agcaacctgg agcaattgag cagcctaaag cttatgttgc aaacatttac 180  
 aatagacctc ctcaacctca gcagaaaatc aaccacaaca gaacaattat gacctctcca 240  
 gcaacatata caatcccgga tggaggaatc atcctaactc caaatgggct agccctcaac 300  
 aacaacaaca gc 312

<210> 13342  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 13342

agcttgagaa caattttatt gtatgtcctt aaattttata attagtgtac tgagaagtgt 60  
 aaatatcaat caatctctta ttgcataaaa ataaaattct agaattattt atatgatagt 120  
 ctctcataac cttatttttt ataattatat ctttcagtct ttttatctca ttattcatct 180  
 tatttcacat ttctttttct tattcaaaat tgttgcataa ttatatatgt gatattctaa 240  
 aaaatattaa atattaattt gttatggaga gaaattttaa tctaagactt ctttcttctt 300  
 ttttcttatt tcttatttta actattaagt caacctatta actccttata tatgtgatac 360  
 ttaaattttt ctttactta 379

<210> 13343  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13343

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ctgactcacg gggtggggtg acagaactgt ggggtgggtg acaaaagcgg gacttttgct 120  
cctacatata ttcaattgag agactacata gttcttcaat ttttgtgtga gactacaaat 180  
agtctcaatg ttattttact aaaatgcgaa catgctaaca tgcttttagca aagaaacaaa 240  
ccttcaactg atcaaggcaa catatatattt tttgaataaa aacaatgcgt ctattggaga 300  
aggaaagtat gctaataaaa ttttctcata accacaaatg agattttgga tggttagcatt 360  
tcgtttctaa atgaccattt agaagaaaca ctg 393

<210> 13344  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13344

agctntgaag aaaaaagagt aagattgaga aatgtttctg ttttaataatg acactttgag 60  
aaaaaaatct caaagatatt ggacaatgtt cctacaaca aaaagctcaa tcctttgttt 120  
aaciaagtta tttgttttgt gttgtgattg cttatctca ctccatgagt ttgtttcttt 180  
gtaaatcttt caaacacttt taattgagaa attcaagagt ggctttgtta ctagagaata 240  
taagcaggaa acaagaatca aaccgtata gttaactggg aaagctaagg attataatcg 300  
acattgattc atcattttga ttttaattta acatttccaa ttaaaataaa catgaaacat 360  
ttgtttcatt cagcttcttt aataaaaaaa taagatttga aaattaaa 408

<210> 13345  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13345

tctcgatata ttatgcgcct gaatcagact tccgtttcaa aagttatgac catatgaatt 60  
tctccactgt attccgtgtg acaagttatg accatttgaa tttctcgata gcattcgttg 120

ttcaatttcg agcgtctcga tatattatgt gccagaatcg gacttccgtg tgacaagtta 180  
 tgaccatttg aatttggtga gagcatccgt tgtagattt cgagtatctc gatataattat 240  
 gcgcctgaat cggacatccg tgtgacaagt tatggccata tgaatttctc gagagcattc 300  
 ngttgtcaat ttcgagcgtc tcgatatagt ctgcgcgtta atcggact 348

<210> 13346  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 13346

agcttgaaat tgaacaatag aagctctcta gaaattcaaa tggtcataac ttgtcacacg 60  
 aagtagcatt caggcgcata atataccgag atgctcaaaa ttgaacaacg gaagctctcg 120  
 agaaattcaa atggtcataa cttatcacac ggaagtccga ttcaggcgca taatatatcg 180  
 agacgggtcaa aattgaacaa cggatgctct cgataaattc aaatgggtcat aacttttcaa 240  
 acggacatcc gattcaagcg cataatatat tcagaagctc taaattgaat aacagaagct 300  
 ctcgagaaat tcaaatgggc ataactattc acacgaagtt cgattcaagg gcataatata 360  
 c 361

<210> 13347  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 13347

agcttatcaa gacctggaga caagttatga actaaacagg tgcattccaaa aatatgtgga 60  
 tcaacatgaa gcaatagttc tttaagaaaa aaatggaatg tggtagttta tttttaatag 120  
 aggaagaagg cattcgattt accaaaaaac aggctgtcaa aactgcatca cccaatgcc 180  
 ggacaggtag attggcatga agtaataatg tccgagcagt ctcaacaaga ttcctattct 240  
 tcctttcggc aatgccattc tgtagaggag tatgaggaca agaagactga tggagaatgc 300  
 cctgcgctga caaaaaagaa gaaatagcag aagaaaagta ttctttcgca ttatcactcc 360  
 taaggatctt aattgtctta ccaaacttga gtttaatttc attaacaaaa gaagtgagaa 420  
 tcgaagaaaa ttagatcat tc 442

<210> 13348  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13348  
  
 agcttcataa aagtttatat ggctngaaac atgcactgag gcagtgggtac aagaagttta 60  
 atgagtttat gagcaactta tgattcaaca gatgtggcat gaaccattgc tactacgtta 120  
 agaaatatac taatagctat gttatccttg ccaagtatgt taatgacatg ttgattgcag 180  
 gatctagtat ggcagaaatt aacaggttga agcagcagtt gacagaaaac tttgaaatga 240  
 aggatcttgg ttcagctaaa caaatatttg gtatgagaat tcttagaaac agatcagaag 300  
 gaattttgaa gttgtctcag gagaaatata tacataagtt gtttgacagg ttttaccttg 360  
 aagattctaa caccaggaat acccctttgg gatctcattt gaagttntca aagaagcaat 420  
 ctttgcagat agatgaagaa naatgttaca tgtcaagagt accat 465

<210> 13349  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13349  
  
 gcttgtaatc gattaccaa agttttaaac attntataac agtctttaga aatttgaatn 60  
 taaatttcaa agcctgtaat cgattatagc ttgtgtgtaa ttgattgcca gacattaaaa 120  
 ttcaaatttc aagactgaag agtcacaact cttcaaaagc taactgcata atcgattacc 180  
 acatttatgt aatcgattac cagtagggaa ttttcgaaaa taacttccaa gagtcacaat 240  
 tgttcaagaa atttttgaat ggtcatcaaa ggcctataaa taggtgactt aggacacaaa 300  
 attacctaga gagtttttct gaacaaaatt gtcttatcct cttcaaaca aaatgtctta 360  
 tcactctcaa aatat 375

<210> 13350  
 <211> 468  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 13350

gcttctggtg ggacatcttg acttgctttc ctttctgaca ttcaccacag attctgcctt 60  
cttctatttt cagattggga atgcctctaa cagcaccttt gtcaatgatt ttcttcatgc 120  
ctcttaagtg cagatgtcca aatctttgat gccatatttt gacttcatct tctttggagg 180  
atagacatgt ggaggagtaa ctggtttctt gaggtgtcca taggtaacag ttgtcctttg 240  
atctgctgcc cttcattaga acttcactct tctcatttgt caccaagcat tctgactntg 300  
tgaagtttac attgaatcct tcatcacaca actgactgat gctgatcaag tttgcagtca 360  
gtcccttcac cagcagtact ttgttcagac tangaagtcc atcatggact agctntccca 420  
ttccagtgat ctnttcttta gagccatctc caaatgtcac atagctag 468

<210> 13351  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13351

gcttcttggg ggttngatgg atcctctctt attgtatagg ccatataatc gggcccatag 60  
tcttttagcaa ttcttgcttt cttacctctt cgaggctcta tttttggttc tggtagtgca 120  
agattttcac tactaatagt aggaaggcga ctggatgaag taccaccact attccttaat 180  
ttaaaaggaa atttattttc ataaaaatca gcatcatttg actctatgat cacttttgtg 240  
tttaggtcat aaaacctata cgctttgtta ttaatagcat aactaatgaa cacacattca 300  
taggctctac ttgtgagttt aacctctctg gggctctggga tccttacata ggccagacat 360  
ccncaagttc tcaaatagga caaatgttgt tgtcttttcc ttaatatctc atagggagat 420  
gtcttgcttt ttgattngng gattctattt atcacataac aaacattt 468

<210> 13352  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13352

agcttaccaa gaatgttata caaagatgat ttactttgtg aagcatgtaa ggggaaatag 60

attaaaacct tcttttcaag aaaaaacttt gttccacct caaaaccact cgaactatta 120  
catattgatt tgtttggtca tatggtctgg tagtagttga cgactactca agatggacat 180  
gggttatggt ccttgctcac aagaatgagt cttttaaggt cttctttaaa ttctctaaaa 240  
gagttcaaat tgaaaaggga gtatgtatta ctttaatcag aagtgatcat ggtggaaagt 300  
ttaaaaatga gagctttcat caattctgtg aaaaaaatgg aattcttcat aacttctata 360  
ctactagaac ancctaaaaa aat 383

<210> 13353  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13353

ccttatctat ccacaccct ctattaacta aattaacttc cttaaaaata attacggatg 60  
aaaataacgc aacaaataat caaacatcaa acataattac taataatata tagatatata 120  
tcagggtggt acaactctcc caccctttta gaaatntcat cctcgaaatt taccttactc 180  
aaacaaggat ggggtgagctt ctgcgcatctg acttttcta tcccacgtgg catctcatcc 240  
agatgcacct cccagatca ccttgaccaa cggaatctct ntccctctta agtgttgtgt 300  
tcgcctatcc tcgacctca aaggcaatgt ttcataatgc aaattctcct tcacttgtag 360  
atcatccaat tcaatcacat gggatggatc acggatatac tta 403

<210> 13354  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13354

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gtgaagaaga atttggcatt tacctagggt gaaaaacaag agcaagcatt tgctttgctc 120  
aaagaanagc ttactaaggc acctgttcta gcttttcttg acttttctaa aacttttgag 180  
ctagaatgtg atgcctctgg agtgggtggt ggagttgtat tgttacaagg aaggcacctc 240  
attgettatt ttagttaaaa acttcatagt gccaccttca actacccac ctatgataaa 300

gagctttatg ccttaataag agccctccaa acttggaac attaccttgt ttccaaggaa 360  
 tttgtcattc atagtgatca tcaatcactt aagta 395

<210> 13355  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13355

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 atggatgcc a gagggcaag ggcacggcc atctaattct cactctggg gatgtggtga 120  
 aaggatacgt catcaaagta ctctatcagt tttctaattgt aggcctggta gggatatcaac 180  
 ttatgatccc tgggtctccta ttctcctttc aattggtgga ttaccaaggc taagtcccca 240  
 tataccttga gcaacttgac cttgaagtca atttcgctt ggatcccaag ggcatacgcc 300  
 tcatattcag ccatgttggt cgtgcagtca aagcccaacc tagtcgtgaa gggatatacat 360  
 ngatcgttgg gtgtaaccaa aagcacccca actccatggc ctagtgcatt agacgccacc 420  
 gtaaaccaca caatccattt gcccta 446

<210> 13356  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13356

gcttaagctc cttcttctgc acaaggctct taatatttga agagtatcct tgtggaacct 60  
 tcacccgacg aagacactga caaaaactta tcttctcctt tntggacaaa gtatggcaag 120  
 ctggggggcaa gtaaantttc ttcccatcag acattggatg caactgtgat cgtatgcca 180  
 tatcagctag atcttgacgg gtattcaagc catccttcgt ctttccttga atgttaagga 240  
 gcatcccaat cacactgtca caaacatttt tctcgacatg cataacatca atacaatgtc 300  
 taatgtcaag atcagaccag tacggaagat caaagannat cgacctcttc ttccatatgc 360  
 aactcttact tatatccttc ttttgggtct ttccaaatac attattc 407

<210> 13357  
 <211> 159  
 <212> DNA  
 <213> Glycine max

<400> 13357

agccatttcc gcaccttttc ctctgtccac tttcaaccgt tcctccaaat gtaaaatggc 60  
 ctatcggaat acattttcta catcctaact actataaaac aacctttaga cttacgtttg 120  
 ctactctcat ggtctcaata ctgccgccga aattctgtc 159

<210> 13358  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13358

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 atatgcacct gtcgcaagac tetgtggttt atgctectct gccgaccacc atacagacct 120  
 ttgcccctct gtgctgcaat ctggagcaat tgaacagtct gaagcatatg ctgccaacat 180  
 ctacaataga cctcctcaac ctcagcagca aaatctgcca caacagaaca attatgacct 240  
 ctccaacaac aggtacaatc ccgggtggag gaatcatccc aaccttagat ggtcaagtcc 300  
 tccacaacag cagcaacaac aacagcctta ttttcataat gctgctggcc caagcagatc 360  
 atacgttctt ccaccaatcc agcaccaaca acaacag 397

<210> 13359  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13359

agctntataa accaatatta cttacctatt ttcacttgct tggatccagt aacaatataa 60  
 ccttctacac cacgaacaat atccctttga taatgctgaa aacacaattg tgatttggag 120  
 ctatgatcag cctaggggag aagggataaa tcgacatcaa ctataaatga aaacaaagaa 180  
 ttgaaatcaa agaaccaggt aaccttcccc gcacgtgtcg atatataaag tatctcaagt 240  
 ttctggtgta gctggagctc cactccatca gtaaccacat tatctgaacc ttcataaccg 300

ccacccccaa actgcttcag aacagtctaa atagcaacac t

341

<210> 13360  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13360

nagcttatca aggacatggt tggataatct atacattcta taaaatttaa ttattgatag 60  
aataaaaaata tattcttggt ataattactt taattattat tatataatcg ntgtaatcga 120  
gcccgacta ttaagggttg ttacaatct aaaaaagtta agtattttta gtgtaaatct 180  
tcttttttta agtagatttt agatagatta gggattaggt agattttatg caaactcaat 240  
aaactctcaa ttataactg tattttggtt tgttgcttta gttattttca attgatgtgt 300  
tattcttaaa taaaagaatt tttaatttta ataactcaa atccttaata ataattattat 360  
tgaaatattt aattgataca ttatttatat acttgagtct gataagcttg agtgccaacc 420  
atgatcactg caatacaag 439

<210> 13361  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 13361

gcttatgctt caaacattta taatagacct tcttagcagc aaaaccaaca acaacagaat 60  
aattatgacc ttccaagcaa cagatacaat cctggatgga gaaatcatcc aaatctgaga 120  
tgggcaagtc ctccacaaca acaacagtct atccatcctt ttcagaatgc tgctggtcca 180  
agcaagccat atgttcctcc tccaatacag cagctgtcac aacaaagaaa acaagcaact 240  
gacgtcctc ctcaaccttc tttagaagaa ttagtgaggc aaatgacct ccagaatatg 300  
caatttcaac aagagacaag tgtttgatca agtggactcg gaataattaa gaaggggggt 360  
gaattaatta ttaatgaacc ttactaatt aaaaatccat ccttcttaat ggtacta 417

<210> 13362  
<211> 454  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13362

agctgtcaan agggaagcaa gttaaaaatt gttttcaaag taaatacggt gtttctactt 60  
caaaaccctt tgaactactt cacattgact tatttggtcc ctcgaaaact atgggttttg 120  
gtggtaatta ctatgtccta gttataatag atgattactc aagggtcaca tggactttat 180  
ttntgaaaac cacaagtga gcttttggatg cttttcgcan acttgccaag gtgattcaaa 240  
atgaaaaagg tctcaacatt gtttctactt gaagtgatca tggaggtgaa tttcaaaatg 300  
agtatttgaa aacttttgtg aagaaaatga aattcaccat aatgtttcta cctcaagaac 360  
acctcaacaa aatggtgttg tggagaagga aaatagatcc cttgaagaag gtgcaagaac 420  
ccttcaaatg aaacaaagta cctaagtact ttgtg 454

<210> 13363

<211> 327

<212> DNA

<213> Glycine max

<400> 13363

taacgtttta ctcggtatgtc caattgagtc ccgtaatata tcgacacgct cgaaattgaa 60  
tggtgaagct ctgagccaat tcaaacaaca ataacttttt actcggtatgt ccgattgagt 120  
gacttaatat atcgggacgc tcgaaattga atgttgaacc tctgagcaca ttcaaacgac 180  
aataactttt tagtcggatg tttgattcag tttcgtcata tatcgagacg ctcgaaattg 240  
aattttgaac ctctgagcca attcaaacga caataacatt ttactcgaat gtctgattga 300  
gtcccgtaat atattgagac gctcgaa 327

<210> 13364

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13364

agcttggttc actattgaag ttagatagtt ttatctttgc atttctaacc attgaggatc 60  
aaaccaactt tntaatcact gccaacctat aaaatctgat gtgggttaca gctaattgtt 120

atattcttca agttggattt gctgtatttt tggaaaattt catttcattg ttctcaattt 180  
 ttgtggaata atgggtgttct cttgtgtatt aactgtcata attgtttaat tttcaaatac 240  
 agagataatc gctcctccag atcatcactt gtagatgggt ttgatagtct ggaggagggt 300  
 ggtctaaggg cttcttcttc ttactcacgt gaaattaatg agcatgataa tgataaagcc 360  
 atagagaagt tggaggacag agtttcgttt ctgaaacgag tgagtttttt ctatcaagta 420  
 ctatttca 428

<210> 13365  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13365

cttcaagtag tgcattgat gcttccagag aataacacat tttctaaaag ttactatcag 60  
 gccagaaga tactgtgtcc aatgggtatg gagtattata agattcatgc ttgcccccaa 120  
 tgattgcata ttgtacagac atgaatttga agaaatgtcc aaatgcccta cgtgtgggggt 180  
 atcacggcat aaaatcaatg atgatgagga gtgtagtagt gatgaaaact caaaaaagga 240  
 cccctcagt aaggtgttgt ggtatctgtc gatcattcca aggtttaagc gactttntgc 300  
 taatggagac aaaaccttac atggcagca aatggcagaa actgtgatgg aatagtcggt 360  
 catccggttg att 373

<210> 13366  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13366

agcttcaacg gtgtgttagg gttgatgcgg gttattccat tcactttata tcgtancttt 60  
 ccattaatta tggctttaga atttgccaac acaagtgttc tttgaacagg gatggttcca 120  
 tagtggaatg agccctgagg atttggtcga actgcatttg ctgtcaaatt cagtcttcaa 180  
 aacaacacaa tagaacacag tctgagccta tgatcaccag atccccaatt attttttttt 240  
 ttggttatag gtaagaatca aaaaattcat aaaactgata cacattactg aattaactaa 300

gaaaatatgt tctatattacc tcttaattta aattgttaaa aattataaac ttaagaatgt 360  
catatttcca tttcatctta atttttatat taaatatata aatcaagtaa ccaacgtata 420  
ttttttacta tttatataat atttg 445

<210> 13367  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 13367

gataatcaat gaacattgcc atagatagtg aaaaaaatta ttaataacct cattcaaaaa 60  
taaacatgtc atgggtgagc ttactttaat tcattgttta tgtcatagtt taaatgataa 120  
acgagacaga ggtagcttag ttatttcatt attaaatcaa ttggttaatt aaacattgct 180  
caaagaattc ataattataa tttgttcata aaaaattgca acagaaaaat attgatgagc 240  
taattaaatg ttatatTTTT aatactatct ttaagattgc aacattttta gattgtagtt 300  
atcaaagtc tgatacaaaa gaagtgtgtg ttgatcatta tactgctcca tgaataattg 360  
aagcttgc attaattattat aacatgtcat tatttatcat acca 404

<210> 13368  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13368

cctttaatgt ttcagagtac ccaaacaata ttccattatc acacttagag acaaactttc 60  
ctaagttgtc cttagtgttt aaaatgaaac attgacatct aaagtgatgg aagtatgata 120  
tgttgggggtt tggtcctttc cacaattcat atgaagtctt ttttagaata ggtcttacgt 180  
atattttgtt ttgtgaataa tatgtaatat tcactaattc agtcataag tgcttaggag 240  
taaaaaatat tattaagcat ggcctttgtc atttctata attatttggt cttccctcca 300  
accacaccat tctgttaaag tgttctagga gttgaaaagt tgtgaaggat actattttcc 360  
tcacaaaata gttgaaaatt cacattttca aatttntctc catggtcact tctcattgaa 420  
gcaatgcata ctcttctat anttttcaat cttgttcat 459



<210> 13369  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 13369

taatggacac acatgaacat cgctacgcaa cgacattcat ggcgctccga acatacgtgg 60  
 agtattgagg attgccttga ggggtccgcac ttaagcgatc atgaaactat gctccataca 120  
 tcatagtgga ggacacatga acaaccctaa gcaataatat tcatgtggcg ccgaaaaagg 180  
 atgagaatgg aggatggcct tgagggtcct ctcttatgca atcatggaac acagactaca 240  
 actctcaaac ggaggacaca tgaat 265

<210> 13370  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13370

ctaagcttta catgcttgga agtatagata agtggaatat taagcttata taagagattn 60  
 cttagtagtg ggacaataac tatgtgtaag gcaaaaattc tgtttatcat tcaaactcat 120  
 ctccataata aacataattt gggacaaggt atcaattaaa attagctact agtttaatag 180  
 atgtgagtgg gcttaaaaca tattgtaagt tggaagtaat aaataattat agtttccttt 240  
 tcttaaaactg tttgactgct taagtatgaa tattgttgta tctctaaaac atagaatggt 300  
 acactattgc aataccatca atataatcct ttcaatggaa caaaatctaa aaatatatat 360  
 tataacacaa taaactaatt atactgaact gagtcttaaa tcaagattca aatgtggaat 420  
 tgccacctta tttagtaact cgtatttctc atagcta 457

<210> 13371  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13371

ggatgatgaca aactaacatg gttgntgtgt acgtcatacc atcacataat attccccttg 60  
 tcttcctttg aagcgacttt aagtattcca tggctgcccc aatggtgctt ttcacaaaac 120

aaaacaaaat actcaggcaa attcacttat ctaaagcaat tgacaacata tatctcttgc 180  
aacataaaca aagcacctac ttgtatactt gccactcaga aggaggagca taaatacagc 240  
ctttgctgtc ctatgctcac atatcatgcc acctgcacac agaaataaga acattcaatc 300  
acttatatcc tagaaaatgt tcaacaggag ttacagagaa ctt 343

<210> 13372  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 13372

gttcatgctg ggggtcttca aacaagcaat agggagaggg gaaggagctt cacacttatg 60  
agcaaaaaat gtctctacaa gaacaccagg tgcttgagtc cctctattgc ttggcctcac 120  
ttcatgaaca ttgaaacctt tctcatcact gctcttggtt ggtcccaaaa tacatgagtt 180  
tctctcacac tgggtctgtga gatctgacct aacacacctg attttgtcaa gtgaggggtt 240  
ctcatgtgtg gtggtgacaa catggcctaa cgctttatag ccac 285

<210> 13373  
<211> 486  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13373

ngaaaaactg tctatatgca gcagcccccga ggcttcgaat atgacaataa ccttgtttat 60  
aaactgaaca aggtctcttta tgggctgaag aaagcacttc gtgcatgggt ttaaaagctt 120  
tcagcaactc ttatctctct tgggttcaag gctagcaagt gtgacccttc cttatttgcc 180  
tcttctcat gtggaacac aacttatgcg cttgtctatg tggatgacat aatcctcact 240  
ggaaataaca gtgttctaata tcaacaactt atttcacagc taaactttat tttctctctt 300  
aaacatcttg gcaagttaga ctacttcctt ggaattgaag tcaagtataa ttttgcaggt 360  
tttgtcatgc tttctcaaac caatacatc tcagattntc ttgaaagagt aaatatggaa 420  
gaagctaaag gaattttcac ccttatgggt ggtaatctca aattgtcaaa gcaagaaact 480  
acatgc 486

<210> 13374  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13374

agctttgagc aatttcaatc gacaataact ntttacatgg atgcttgatt gagtcccgtc 60  
 atatatcgag acgctcgaaa tngaattgtag aagctctgag ccaattaaga cgacaatatc 120  
 tttntactcg gatgtctgat tgagtcccgat catatatcga gagctcgaa attgaatggt 180  
 gatgctctga gcaaattcaa acgacaataa atctntactc ggatgtctga ttgagtcccg 240  
 tcacatatct agatgctcga aattgaatgt tgatgctctg agcaaattca aacgacaata 300  
 tctctttact cggatgtctg attgagtccc gtaacatatc gagacgctcg anattgaatg 360  
 ttgaagctc 369

<210> 13375  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13375

caaactcagt ttggtgtttc catcaagtgc ctcaaactctg acaatgctaa agagcttgcc 60  
 ctcaactcagt tnttggcttc cataggcaact cttcatcaat tttcctgtat tgagagacaa 120  
 gaacaaaatt cagtgggtga aaagaatcat tagcatcttc tcaatgtagc cagagctttg 180  
 tacttccatt ctaaagtccc tttatcattg tggggagatt gtgttaccac tacaaccttt 240  
 ctcacatcag gaactccttc atcattacta aaacacaact caccattcaa cattttgttc 300  
 aataaggaat cagaatatca tgccttgagg agttttgggt g 341

<210> 13376  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13376

agctttggat cttngggagt gcaganaaga atactatgat gttcatgaac tacctttaaa 60

tccaacagtg gctcagatga agaatacacag agagaggaag accaaaaagg ctaaggctaa 120  
 aaatttcctt ttctctgttg tgtcaaaaat tatttttaca agaattatga acttcaaatac 180  
 taccaaacag atttgggatt atgtcagatc aaaatatcaa ggttgtgaaa gaaccaaagg 240  
 catgcaagta cttaacttgg gcaaagaatt cgagatttaa agcatgaaag agactgaaac 300  
 aattaaaggc tacgttgacc aactgttatg catagcaaata agagtggaggc ttcttgggaa 360  
 ggactntcct gatgaaagaa tagtgcanaa aatcttggtc actataactca agaagta 417

<210> 13377  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13377

taataaatct atatatgggt taaaacaagc cttccatcag tggtagctta tgtttcatgg 60  
 gataattcat tcatttgggt ttgatgaaaa cctcatggat caatgcatat accacaaggt 120  
 tagtgagagt aaaatatgtt ttcttgttta tatgttgatg atattttact tgcaggcaat 180  
 gatcgnggt tagctacatg aggtgaaata atttctctct aagaatnttg acatgaagga 240  
 tatgggtgat gcatcggtgt cattgacatt aagattcata gagatagacc tcgagggtatt 300  
 ttatgttttt catatgaaac ctatattaac aaaattctag agagatttcg gatgaaagat 360  
 tgttcaccta gtgttgctgc cattgtgaaa ggtgataggt ttaatttgaa ccaatgtcca 420  
 nagaatgact ttgagaagga acagattgaa aacattcctt atgcttagtt gttggaagcc 480  
 tcatgt 486

<210> 13378  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 13378

taaaacaatc cataatcaat tgtacccttc aagttacgaa gaattcttct tgcggctttt 60  
 agatgaggag aggtatgagc ctccgtatag cgacacacaa cttccaccgc atatagaata 120  
 tcgggccttg tattgggttag ataccttaaa ctccccacaa gactcttgaa gaccatggag 180

tctaccttct ctcttcatc aaactttgat aacttcaagc caccttccat atgtgtgttc 240  
 acgggattgc aatcaagcat actaaatttc ttcaacactt cttttgtgta gcttccttgt 300  
 gagacaaaga taccattctc catttgcttc acttccattt ccaagtaata tgacatgag 359

<210> 13379  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13379

acattcaatt tcgagcctct cgatatatta cgggactcaa ttaaacaatcc gagagaaacg 60  
 ttattgtcgt ttcaatttgc tcagaggctc aacattcaat ttcgagcgtc tcgatatatt 120  
 acgggactca atcagacatc cgaggaaaat gttattgtcg tttgaattgg ctcagagggt 180  
 caacattcaa tttcgagcgt ctcgatatgt tacgggactc aatcagacat ccgagtaaaa 240  
 agcaattgtc gtttgaattg gctcagagat taaacattca atttcgagcg tctcgatata 300  
 ttacgggact cactcagaca tccgagntaa aagttattgt cgtttgaatt tgctcagaag 360  
 gtcaacat 368

<210> 13380  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13380

agagactntt caagctatnt atcttctatc tcatataagc tctctaactn tntagttttc 60  
 tcactctaag aagtggattc actcttgtct tggatgggta tgaatgaaag ctctaccat 120  
 tatttatact actccacttc cacaatgaat ggtggagatt acttgtatcc taaggatgaat 180  
 attaattctc tagaatgctt tgcacattct agtagtttct acaattttct atttccttcc 240  
 atatcctttc atactcttct ataagattct agaagggttc acacatctcc ataatagtcc 300  
 agagggtttcc acatttttcc ataagtttct aaagaattct acaccactct agagttcttc 360  
 agaacattct agaantttca acattctntt agaaaagttt ataaatttct tgaacctatg 420  
 tgatttagaa tatanaanaa attatagcac ccaanaacaa tttttaggaa tata 474

<210> 13381  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13381

ttgcaatggt ccaattgtct tttaaattggt gtgatcgatt acaatatatt ggtaattgat 60  
 taccagtgtg tctgaacggt gaaattcaaa ttcaattgtg aagagtcaca tcttttcata 120  
 aaatgctttg tgtaatcgat tacatgggtt tggtaatcga ttaccagtga caagttttga 180  
 ataaagatca agagatgtaa ctcttccaat ggttttctca agattttctc aagggtataa 240  
 ctcttccaat ggttttctct tccaatgggt ccatcatttt cttctatttt ctaaaccttt 300  
 ttgaccatc attaatctact gattgggtctt aattgtcaat taatcacgca gatttattat 360  
 ttgggctcat gtagctaata tgatgtttta atctaatttc aggaattaat ganacattgc 420  
 gcttaatccg gatcttggtt atgggcttga 450

<210> 13382  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13382

caacctccgt tggagttgtc ggntgtagcc actccatcgc cgactccacc ttgttcggat 60  
 ccattgcaac cccgtcttta taaatcacgt gtccaagaa ctgcactttc tccaaccaa 120  
 attcacattt cgacaatttg gcgaacaatt tcctatccct caggatagcg agcacaatcc 180  
 tcaagtgtt ctaatgtctc tccttattcc ttgaatacac tatgatatca tcaatgaaca 240  
 caaccacaaa ctgatccaag taatcatgga atataggggt gatgatagac gaacagttct 300  
 aggcaatcaa tttgtggggc tccacactct atgggtggagg acgcatgaac agcgctacgc 360  
 aatcaattca tgggac 376

<210> 13383  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13383

aagcttaaga accatcctcg atacatattg gtgaatctta taagggtaca actagacatt 60  
ctcttaaaga cttatgcaat aatatggatt ttgtatctat gattgaacct aataatataa 120  
aagaagccat aatagatgat aactggatca ttgccatgca agaagaattg aaccaatttg 180  
aaagaaacaa tgtgtggaaa ttagtagaaa aacctgaaaa ttatcctgtc atatgaacaa 240  
aatgggtttt tagaaataaa ttagatgaac atgggtataat tattagaaat aaagccaggt 300  
tagtagcaaa aggggtataat caagaagaac gtatagacta tgaagaaaca tatgctcctg 360  
ttgcangatt agaagccatt agaatgctct cggcatatgc atccataatg gattttaaac 420  
tntatctaag ggatgttaag agtgctcttc tatatggagt aattcacgaa gaggtatatg 480  
tcgaacaacc c 491

<210> 13384  
<211> 474  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13384

gtattcaaat tggctnttgg aagtgccttg gtcagaatgt cagcactttg atgctctgtt 60  
ntgtagtaca gtaacttcac ttctccttcc ctttgaactt ctcttagaag aaaaatcttt 120  
atcttgaaat gcttagtttt gccgtgaaac actagatcat tagcaattga tattgcagcc 180  
tggttggtcca caaaaatctg tgtgctttct tcttgtttca tatgcaaate tgcataaatt 240  
ttcctgatcc aaagagcttg attcactaca acaacagcag ctacatactc tgcttctgca 300  
gttgattgag ctacaacttc ttgcttttta gaacaccaag aaaagactcc agaaccaaat 360  
gataaacaat aaccagaggt gcttctcatg tcatcaatac aacctgccca gtcactatca 420  
taatatccat ggagcttann aatatgagaa tgagagtaca ttataccata gtct 474

<210> 13385  
<211> 474  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13385

agctttgnga tgtanaagcc ttccatgcc ttttacacca ccaatacttt ctcggtatc 60  
 atagattntt ggctattctc tattaatctg tttcaaaaaa tatcacataa taagacttgg 120  
 aataaaaatta aattctgtaa aatagaagaa aaaggaagca acaaactaat actacatact 180  
 cgatatttgä cttgtatggt tgtgatgctg gtaatttaca attgaattnt cccttgcaat 240  
 ctggacaata gtaatctgta ttttccagat cctgtaacca cgagtctgac ctttatcata 300  
 atccacttca tgaaagagag aaatctaaaa ataaataaat aaatagtgtc atcatgtnta 360  
 agcatgatac agcaccttga aaactttgct ggatattnta tcgcactcag catgcaccca 420  
 cacattacaa ccatcacaa acacctgata caaagagttc attaccacaa tatg 474

<210> 13386  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13386

cgacaataac tntatactcg gttgtcttac tgagtcgcgt aatatattga gacactcaaa 60  
 attgattatc gaagctctga gcaaattcaa acgacagtaa ctttttactc ggatgtctga 120  
 ttgactcccg taatatatag agacgctcga aatggaatac cgaagctctg agataattca 180  
 aacgacatat actttttact ctgatgtctg attcagtcct gtaatatatc gaaacgctcg 240  
 atattgaatg ttgatgtctt gagaaacttc aaactacagt aactttntac tcggatgtct 300  
 gattcaggcc cgtaatatat cgaaacgctc gatattgaat gttgaagctt tgagtacctt 360  
 caaacaataa taacttttta ctcggtatgtc tgattgacac ctgtaatata 410

<210> 13387  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13387

aaccttctgg tggggtctta tagatgtctt cctctaaatt cccatgcaag aatgcagatt 60  
 taacatctag ctgctccaag taaagattct ctgcagcaac aatactcaga ataactctga 120  
 tggtagttat ctttacaact ggaaaggagt ctctgagata tcaattcccc tgttctactg 180



aaaccctttc accacaagac tcgccttgta tcttcttcta ccgtcagatt cttccttttag 240  
cctacagacc cacctatntt gtgacgcttt c 271

<210> 13388  
<211> 334  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13388

cactgaagag gaagacaaaa ttatctgcac tctatatgac accatcggaa gcaggcaagt 60  
ccattatntt ttttttttta tatatatgaa cgtattgaat atgtgaatat gcattgcttt 120  
tgcattatta ttgctatata tctgagtaat gtgatggttt tgctcttagg aggtgcttta 180  
tatcatgtaa actttccggg agaacataca atgatgtgaa gaatcactgg aacaccacgc 240  
taaagagaaa gctcttgga agaaacacat gtagtactgg tgccacgaca agcaacaaca 300  
atgtcacttt gagcaatact aaatattgtg atca 334

<210> 13389  
<211> 398  
<212> DNA  
<213> Glycine max  
  
<400> 13389

gcttcatgag agagtcaaag atcaaattga tatgaaaaat aaaagttatg ctaaacaagc 60  
caacaaaggg agaaagaagg ttgtcttcaa acccgagat tgggtttggg tgcacatgag 120  
aaaagaaagg tttccggaac aaaggaaaac aaagcttcaa ccaaggggag atggaccatt 180  
tcaagtgctt gaaagaatca atgacaacgc ttacaaagtt gagctgcccg gtgagtataa 240  
tgtagttcc accttcaatg tctctgattt atctcttttt gatgcagatg gagaatccga 300  
tttgaggaca aatccttctc aagagggaga gaatgatgag gacatgacca agagcaaggg 360  
caaggatcca cttgaaggac ttggaggacc tatgacaa 398

<210> 13390  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 13390

ctcagcttca cattcaattt cgagcgtctc gatgtatcac gggactctat cagacatccg 60  
agtaaaaagt tatcgtcgta tgaatttgct cagagcttca gaattcaatt tcgatcgtct 120  
cgatatatta cgggactcaa tcagacatct gagtaaaaaa gttattgtcg tttgaatttg 180  
ctgagagctt caacattcaa tttcgagcgt ctcgatgtat cacgggactc aatcagacat 240  
ccgagtaaaa agttattgtc gttcgaatta gctctgagct tcagaattca atttcgagcg 300  
tctcaataga ttacgggact caatcagaca tccgagcaaa aagttattgt cgtttgaatt 360  
agctcagagc ttcagaattc aatttcgac gtctcggtat attacgggac tcaatcagac 420  
atctgagtaa agaagt 436

<210> 13391

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13391

ttatatgcac atgtatgttt tcaacttctca tcaacttagt ttttctgtt agattattga 60  
gatcaacctt agaagctgga atttcaagat tagtttactt tcaaaaagagt accagcatac 120  
ctgcaagtca acagggtttga tgctgtggga atcagctcgg ttgatggctt ctgtccttgc 180  
agaaaatccc aacattgttg ctggaaaaag ggtcttggag ttgggggtgcg gcagtggggg 240  
aatctgctcc atgattgctg ttagagatgc tgatctagta gttgcaactg atggagatgg 300  
ctntgcactn gatctcctga ccaaaaatgt tgcacccaac attgagccat cattactgac 360  
taaactcacc acaaaaaaac tggagtgggg aa 392

<210> 13392

<211> 489

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13392

ctcagcttga agcaacgttg ttgaatttaa gttgcttgag agtggatgct tacattccat 60  
tccattcgag ttgcacctat aactaatatn tttgtttgaa tttacagatt ctatttcgat 120

tttaacatga cttatgtggg agcaggggatg atttgccccc acctagtga tntgtctttg 180  
 ctcccttgag ctgttctatc ttttgagtg gtatggccgc tcattgatct tcgtaaggga 240  
 gattgggtcc cgaccaatct agatgagagc agcatgaaag ccttgtagtg ctacaaggtc 300  
 ttcctgacag ttgctctcat cctcggtgat ggcttataca actttgtcaa gattctagtt 360  
 tcctcaatcc ttagcgtaca tgananaatt aagaaccgta aaaatggtaa gaaaaggatt 420  
 cagaacttgc cattctcgag gtcatatnnt ggtatgaaat attacattca attcacatat 480  
 aatttggt 489

<210> 13393  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13393

agctntaggt cttanaatgt cagtcattgc aattatgaaa gcatgttagg tcctcttttc 60  
 caaagagaac tgaaatanga tgtaaatac cttttccac tttcactct gatatttggg 120  
 gtccaagctg tgtcacatct tttggtttca gatattttgt tacctttatt gatgaatact 180  
 ctagatgtac ttggctntat ttaatgaaag atcgatatga actttaacct atattcatgt 240  
 ctttcattaa tgaaatcaag acccagtttt taaaagtaat taagattctc aggagtgata 300  
 atgctaaaga atatttctcc tttaatctct tttcgtttta accacacaag gcattttaca 360  
 ttagtccaca tgtcctcaca taccacaac 389

<210> 13394  
 <211> 280  
 <212> DNA  
 <213> Glycine max  
 <400> 13394

tcatcaagct gtgcttcaat ccagtcatt aggtattcta catatgttg agcagaaacc 60  
 tcaatagtg tcttaatatg tacaccatct gccatctat attcacact aaagttgtcg 120  
 tgcaaaaaga caagaccaca taagagctac gaatgtataa atatttagca cagatggatc 180  
 tagaattctc attggcatta aaggaatgat tatataacac acacatgcca gatggatcca 240  
 gaaagggagt gcaaaagtaa ctggttacta aatattgtct 280

<210> 13395  
 <211> 185  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13395

agcttgcaag gtttctatac tctaagcaag tttaactga gttcaggagc accattgcta 60  
 tcaggattca tcatatagaa agcttccgag tctctggacc caacaattct ctcaaacttg 120  
 gccctcatgt acatgatttc accctctgac cctgcttcag ctncactatt attattggta 180  
 ttatt 185

<210> 13396  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13396

ngatgcctct ctgtataacc ctntntactt ttgggatctt tccaatatct tctagcatca 60  
 agtcaagaca atgtgctaca catggagtcc aaaatatatt ttgtctcgtg acttgtgaaa 120  
 ttctacctaa aaagaccaa atcaataaac ttgtatgagt agtgtaacaa ttaaaagtta 180  
 taactactaa aaaaaacttc attaagtatg attgaattct caccgcgcaa cacataatta 240  
 cttccattgt ccgtcaccac ttgaataaca ttcttttctc caatctcctc aacaaagcta 300  
 tccaaaagct caaagatctt ctgaccagtc ttcatgtatt cagaagcatc cacactcctc 360  
 acaaattgtg ttcccaacga acaatntacc anaaagttaa tcaaagttct attcttccta 420  
 ttcgtccaac catctgacat aattgaacac ccata 455

<210> 13397  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 13397

agcatgcaag tttaactaata caagatcata cctcttctta tattctactc tgtatagatc 60  
 agtagttgga gctcttcaat actctctact ataaccagac ctacacttag ttatgctgta 120

gacaaagtct gtcaattcat ggtcaatcct attgaatctc actggacagc agtgaataga 180  
 attctcaggt atatcaaagg ctgcttacac catggcctac ttctgaaagc tgctacttct 240  
 ggaattcaca ttcccagtaa tgccctttgt gatgcagact gagcttctga ccctgatgat 300  
 cacagatcta ctacaggagg tgctatttat tctggcctta atcatatata t 351

<210> 13398  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13398

gcttactata acaagagcag acctcttctc ttatcctact ctgtatagaa cagcagatgg 60  
 agctcttcaa tactctccac tataaccaga cctagactaa gttgtgctgt aaacaaaatc 120  
 tgnctattca tggccaatcc tcttgaatct cactggacag cagtgaaaag aattctcagg 180  
 tatctcaaag gctctttaca ccattggccta cttctcaaag ctgctactcc tggaattccc 240  
 attcncagta aagccctttg tgatgcagac tgncttctg acctgatga tcacagatct 300  
 acttcaggag ttgcctatta tttggcctta atcatatata t 341

<210> 13399  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13399

cctcataaat agaaggagga aactttgcnt tttcaaagtc gtcatttaac aaatacaata 60  
 tcatagtcac tgccttgtcg cttaatccac acaaaacttt tatatgatat aatttgatta 120  
 taaattctag ttttgtgtac tgccttctc catacaatgt ttggctccca tcatttagaa 180  
 gctcataaaa gacattatga tcttctcttg gttcatcatt tactatttca tcttcattta 240  
 atggttgtga tgcacctaca ttatgggtcat gttgcctata ttgttcaaata gcgtcattga 300  
 tcatcatata catt 314

<210> 13400  
 <211> 336

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13400

ttagtactgt tgacgccatt ggaaacaggt cgtgcgacta gattatttcg gtgtctaata 60  
gtgtattcaa ttcaagaaag aggatactac aagccgtact ataatgtgca gatgggtattg 120  
atgaggcttg cctcagattt gatgaagcag ttggccaaat ggagaaacag caacagcaag 180  
atgtagatgc acttcaagtt tcaaaagatg ggactgagaa gaaagattat cctgttgatc 240  
tctctcttcc agatataaaa aatgggatat atagctcaga tgagtntagg atgtatacat 300  
tcaaagttag gccttgctca agagcttatt ctcatg 336

<210> 13401  
<211> 280  
<212> DNA  
<213> Glycine max

<400> 13401

actcagcttg tgcaacctca gacgcgaatc ttccattctg ttctgcctga atgaacagac 60  
acacatagtc acattccatt tccatgtctg cgatcatgagg agtgggtggag tgtgtgttcg 120  
tgctgggctg cgcgcggtgg ctgtggaagc gctgcaccta cgtgggcagc tactacagcg 180  
ccacgtggtc ctccgccacc gccgacgagt tcgacccgga cccacgcgtc tgccgcctca 240  
tcctcgccaa ctacgagccc gatctccgta cccccaacca 280

<210> 13402  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13402

agtctcacia ttgtcacgtg ctcatgcata aattgttagt cgtggctata cgagacatct 60  
tgccaaacaa agtcagggtta gccataactc gcctgtgctt tttcttccat gctatatgta 120  
gcaaagtcac tgatcctgtc aagtttgatg agctggaaaa tgaggccgca attatactat 180  
gccagttgga gatgtatttt cccctgctt tctttgacat catgattctc ttgattgtgc 240  
atctggctcag agaaatcaaa tgttgtggtc ctgtttatct acngtggatg taccagttg 300

agcgattcat gaagatcttt aaaggatata caaagaatct atatcatcca gaagcatcta 360  
 ttgttgagag gtacattgca gaaaaagcca ttgaattntg tcagaataca ttcagaaggc 420  
 taaacatg 428

<210> 13403  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 13403

tctacattca atttcgagcg tctcgatatg ttacgggact ctatcagaca tccgagtaaa 60  
 aagatattgt cgtttgaatt tgctcagagc atcaacattc aatttcgagc atctagatat 120  
 gtgacgggac tgaatcagac atccgagtaa agatttattg tcgtttgaat ttgctcagag 180  
 catcaacaat caagttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240  
 aaaagttatt gtcgcttgaa ttggctgaga gcttcaacat tcaatttcga gcgtctcgat 300  
 atgtgacggg actgaatcag acatgcgagt aaaagatatt gtcgtttgaa ttgctcaagc 360  
 atcacat 367

<210> 13404  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13404

tgtatctcct tgctcagagta gctctgtccc gaatacacia ctctgaaaac atcatcattg 60  
 ctcaagaggt gtttaattcc atgaggagca aganaaggaa ggtggggttg atgactataa 120  
 agattgattt anaagaggct tatgatagat tgagttggtc tttcatccaa gatattctta 180  
 ttgatattgg gctttcgacg agttttgttg agctagtgtg gtattgcata tcttccccta 240  
 caatgaaggt gttgcaaaaat ggcaaagcat tagaggaatt tttacaagct atgggaattt 300  
 gcaaggtgat tcac 314

<210> 13405  
 <211> 473  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13405

tagatggaga agaagagagt gcgagcaaaa tagggctcgc gttctatata ttttaaagtgt 60  
aagtccaaca tcggttttca atacaaaacc aatgttaatc aaatgatgtt aacattaaca 120  
ttgggttttct ggaagaaacc gatgttaact tatcatatcgt taacatcgggt tgtctgaana 180  
accgatgtta aagaattgac gttaacattg gttcttgaaa acccgatgtt aatgaactga 240  
cgtaaacatc ggttcttgaa aaccgatgtt aatgaatata cattattaac aattatgcc 300  
ccgagtttat gttctcatcg gctttgtcaa aaaccgatgt taatctgatg atgttaaatac 360  
tacattttca agtagtgcca acaaccaaata agaaaaaatc atatatatat atatatatat 420  
atatatatat atatatatat atagatatat caaaagagat acattagagt atg 473

<210> 13406

<211> 293

<212> DNA

<213> Glycine max

<400> 13406

caatacttgg agactcatgc ctcttctctc ttcaaacag ctatcggatg tcgctggata 60  
tataagatca aatatcgagc cgatgggtcc atagaaagat acaaagcacg cctgggtgcc 120  
aagggttaca ctcaaacgga ggggttgac taccttgaca ccttttctcc ggtagcaaaa 180  
ctcacctccg tacgagttct tctagctttg gccgcactca acaaattggca cctgcggcaa 240  
ctggacgtca acaacgcgtt tctccatggt gaccttgaag aaaggtatat atg 293

<210> 13407

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13407

ctcagcttat aatatgaatc taattaatgt gctagatata aataactttt ctaagtgtcc 60  
tatatgtgtg gaagctaagt atgcaaagaa gccttttaaa cctgtcaaaa atagaactac 120  
ggaactgctt gaattaattc acacggattt ggctgacttc aaaacacagt aagtagagga 180



ggtaaagcat attttattac ttttatagat gatttttcta gatatgccaa agtttatctt 240  
 ctaaggacaa aagatgaggc tgaagaaatg tttttaaac ataaggcaga agttgaacac 300  
 caattagatc gtaaaattaa aagacttaag tctgataggg gtggtgaata tggcaactat 360  
 tttcttgaga atnttgatgaa aagatgggaa tatcatgaaa tagtgccct atactctcaa 420  
 caaatggat 429

<210> 13408  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13408

nttacatgaa ctcacgataa cacatttgca agagcatcgg tctgccgaca gcgaagccgg 60  
 tgtgggcat gttagatntt gcacttccag gaatgtgtga ttntcaattt gggtaaaaa 120  
 ggattangcg aatgaaactg tttntgtcan gaacaatatt gcattgctgc ttccacttta 180  
 gaaattaatt ntgtagctta tttttgttc tttaatcaa atagtgtgtc aattcttact 240  
 ttatctttat tntctattat taaatattat actaaatgg aattttattn tattatTTTT 300  
 taatatgtga tttaaattta ttattcttta attgagatan cnttatttta cttntaaaaa 360  
 tcttaaattt aatctctata ttttagtgaa catttacttt tactttaaaa attatatTT 419

<210> 13409  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13409

ctattgacta atattttttg taatacttaa taaaaatatt gttaaaagtc tttgatcaca 60  
 ttcaaaaaaa tattatcaaa ttatgaataa atatcactaa tatatgttta tgacattcta 120  
 tcaaatgtta tatatagttt atgttgtaa agcttaaaaa taccataaaa aaactttaat 180  
 aatatacgta acatttgata aatattataa aatatattaa caacatttat tcataattgt 240  
 gtgacattnt tttgaatgtc gtcaaaagtt ttagtaacat tttattaaa tgtagataa 300  
 aaaaaaata ttgctaaaga tcatgtttgt agtagtcct ggaagtatgt tgctttctgc 360

actt

364

<210> 13410  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13410

ctctcgagaa atgtaaatgg tcatcataac ttgtcacacg gaagtccgat tcaggcgcat 60  
actatatcga gacgctcgaa atctaaccac ggacgctctc tagaaattca aatggtcata 120  
acttttagca cgaaagaccg actcaattgc ataatatatc gagacactcg aaattaaaca 180  
ccgaaagctc tcgagaaatt caaatgatca taactttnta cacgtaggtc agattcagac 240  
ctataatata tcgagatgct cgaaactgaa caacgaaagc tctcgagaaa ttcaaattgg 300  
cataacttgt aacaaataag tacgaattat ggcataata taatgagacg ctcgaaattt 360  
aacaatggaa cgtctcgaga aattcnaatg gtcatcactt ttcacatgga ggtcacaatg 420  
agacgcatca catttcgaga cgctca 446

<210> 13411  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13411

ctcagcttgt atttgttttc aaatgaggtg gtggaagtta tatatggttt ttaagacaac 60  
ctaataagggtg cattataaaa aaagaagacg atctattagg tcatgtatag ctacngcaaa 120  
gtgtaacgat gagttattnt gttgagatgt gaacacgcaa aaagaacaat tttcgtacgt 180  
tggtatgacta atgttgtatg ctagttgtag tgttgtattg aatactttaa taaatgaagt 240  
tataaatcac tataaatatc tataatctat agaataatttc caatgatgat tgtcttagtg 300  
agtagagttt cttaaattat atatttagtc tctatagtat tttttgcggt gtcataagtg 360  
ttatgttatt atcaacaact tatacctata tttactctaa tgataagata cttctagaaa 420  
attactgtta tatectttta ttt 443

<210> 13412

<211> 378  
<212> DNA  
<213> Glycine max

<400> 13412

tctagactgt atacaagaat gaagctctga taccacttgc tttaacaagtgc gcttcagata 60  
tcttatgata agggggttgaa ttaagatatc acaatctttt atatattaaa attctattgt 120  
gattttaacc caaatcccaa gatttctttc aaaaattgaa ctccctaaata attatgcaaa 180  
ttaatcttac tgaatagaca taataagcaa taagcaataa acaataaaaag agtttaaggg 240  
aagatagatt gcaaactcag atttatactg gttcggccac accttttgtgt ctatgttcag 300  
tccccagca acccccttga gagttccact atcttgcaaa atccctttac aagttctgaa 360  
gcacacaaag acaaccct 378

<210> 13413  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13413

tatgactcgg tttcttaggg attcctaaac tatatgatga tgaggatggg attttgtgaa 60  
agatgggggaa aatggatcca tggatgcctt tctagtgcga ctatatcaat tttgatcaat 120  
ggcagcacta ctagagaatt tgtgcctgag aggggactga ggcaagtaga tccccttgca 180  
cctttcctat ttaatatagc agctgagggg ctactgggtt tgatgaggac aactgtctcc 240  
aaaaaccttt tcagcagcta taaagtgggg aggcaaaagg aggagattaa catcttgag 300  
tatgcagatg atacactatn ntttggaaact gcaacta 337

<210> 13414  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13414

catcatttca atttctcatt aagtaaaatg gatcattntc aaggccaac gccttataat 60  
gatcacctct taagtaaaaa aaagagtcgc ttgataagca agaactacgt aggtctgatt 120

tcctcatcgc aattgaggat acgtaggagc aaaagccccg cttttgtcga ccacccaag 180  
 agatcgtaa tggccaatg ccttaacgtt tctctccttt caaaaacaag agatcgtaa 240  
 tggccaacg ccttaacgtt tctccccttt caaaatcaaa agaccgttta atgggtcaac 300  
 accttanatg accttctgtt caataataac atattgtgca aaagaagata aaaacaactt 360  
 aaccaaacac 370

<210> 13415  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13415

tgaagacaag actatacgag gtatcttctt tgggtatagc aatatctcta agggctaccg 60  
 tgtctacaac ttgcaaacta agaaactcgt catcagtcga gatgtggaag ttgatgaata 120  
 tgcttcttgg aattgggatg aagaanaagt ggagaagaag gttcttatac ccgctcaact 180  
 acctcaagaa gaagctgagg aagaagaccc aggtgaacca ccttcacctc caccacaaca 240  
 acaagatcaa gaactatcat caccagagtc tactccaaga cgagtaagat ctttggtgga 300  
 catatatgan acctgtaact tggccatact tgaacctgga agccttgaag aagcgtcana 360  
 gcaggaagta tgggtcaagg caatggaaga agagatgcag atgatcgaga aanacaacac 420  
 atgggagtta gtanatcgt 439

<210> 13416  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13416

cttctcttct gactcatgat gtanatccat gtcattcttg tattgtcatc aattatggac 60  
 ataaaatata tccaccacct agagaaggga ctcttgcaag cccccaacag tcatcatgaa 120  
 tataatcaag agttcctttg gtgggtgtgaa ttgctttaag aaatataatc ctatgttgct 180  
 tgccgaaaac acagagctca cagaatttca gttcatccaa tttctgattt cccaacagct 240  
 gctgtgtttg aagtattatc ataccctttt cactcat 277

<210> 13417  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13417

actagatgcc tgggttaacc tggtaacca gctgggcttg aataaaaaat ctcacctgtc 60  
 gccagactct gtggtttatg ctccctctgcc gaccaccaca cagacctttg cccttctgtg 120  
 caacaatctg aagcaattga acagcctgaa gcttatgtgt caaacatcta caatagacct 180  
 cttcaacctc agcagcaaat cagccacaac agaacaatta tgacctctcc agcaacaggt 240  
 acaatcccggtgtggaggaat catgcccaacc ttagatgggt gagtccttca caatagaagc 300  
 aacaacaaca gccttanttt tagaatgttg ttggccaag cagaccatac gttccttcac 360  
 caatctagct agaacaacaa caacagc 387

<210> 13418  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13418

agcttattca aatattcgga ttaagcatat gtttagtttt aaaaaaatta aataattatt 60  
 agctcttaga attttattaa taaaggaaaa tatgtaattt ctattttaaa aatgttaaatt 120  
 taaatatgca ctaaattgaa tgaagaaaat atattcttac cattatttaa acaactttca 180  
 cataacttca aaaacttaac tgcaagtata ccttgatcaa caactagctt gtccgatatg 240  
 ttcaacaaca ttatcatagc tcataaaca ataaaatcac tagaacacat ataagggtaa 300  
 gctctcttta ctcaatgatg tctctcaagc tagatgaata anaatgaagg tgatgggaat 360  
 gagctccaag ttctacacga attttgcagc agcaacgctg caaaagta 408

<210> 13419  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13419

tagcccacaa tgtttctcaa atatggctta agaacttggg atccctatca cttactatgc 60  
tcctaggttag gccatggagt ctcaccactt gcttgaaaaa taagtcaact acatggcaag 120  
catcatcaac ctttttgaaa cgtataaaat gcaccattgt ttataacatt gcaacaacca 180  
caaaaacaaa atccttgcca ctctttgttc taggaaattg caaaacaaag tccatagata 240  
tgtcaatcca aggaaaatca cgaactggca gaggatgata taaaccatat ggcttcactt 300  
ttgattnttt atttttacaa acaaggcatt atttatgtac atcatgtttc atatgagacc 360  
aataaaaatg ctcatgcaat atttctaagg tcttttgac cccagaatgc caccatcaaa 420  
tcacctcgt gtgcctcatt taccaacaaa tctcttatgg aacacttagg cacacacagt 480  
ctttt 485

<210> 13420  
<211> 458  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13420

ccctctgggt gctctgctag ggtttccaag cattagagag aatgtgaagg gattataatc 60  
tcaatttcac tatctttgtg cgagaggaat ttctctctc acagacatta ttttgcaa 120  
cccaacaata ggaatgtgca aaaatgagtt ttgaagggtg tgtccaaatt tcaggatgat 180  
tcaatgggta acaagtctag gatcatagtt ttattgcat agatttgcat gtatgcggta 240  
aaaagagaga gtttttggag atgaagaagg gagaacaatt ttgaaagaga gctctat 300  
actccctatt gaaataaata aacaaaacat ctttntatt ttctaaaaac atatttatt 360  
tatttacctt anaaccatta ttttaattaa taaaactatg catccttatt tattttacaa 420  
aanatagggt gttactgggt agctaatatg cagatcaa 458

<210> 13421  
<211> 472  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13421

agcttcaaga atcaagatca agattcatga ctcaagattc aagaatcaag agaagactta 60

atcaagataa gtatgaaaag gttntttcaa aaactgagta gcacatggat ttttgtcaaa 120  
 acatgtttac caaagaattt ttactctctg gtaatcgatt accagattgt tgtaatcgat 180  
 taccagtaga aaaatgaatt tgaaaaagtt ttcaaatgaa tttataacgt tccaattgat 240  
 ttcagaaagc tgtaatcgat tacaatgtgt tggtaatcga ttaccagtgc ctttgaacgt 300  
 tgaaattcan attcaaatgt gaagagtcac atcctttcac atannagcct tgtgtaatcg 360  
 actacactga ttnggtaatc gattaccagt gattgtnttt gaataaataa aagatgaact 420  
 nttanatggg tttgactttt aaattgttta agttttctta agcatactct ct 472

<210> 13422  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13422

ngctaaccga tggaagctcc taatatctcc cacactntnt gtggtgggccc attcttggat 60  
 gaccttgatt ttctcagggc ccacttggac cccatttcta ccaactacaa accctaagaa 120  
 aaatatatta tctgcaccaa aaatacactt ctctatattt gcatagaggg tgtttttcct 180  
 aaagactgaa agaacttgcc tgagatgtcc caagtgatca tctaggctcc tactgtacac 240  
 taaaatatca tcaaaataaa gaactacaaa tctatctatg aaatccctta agacatgatg 300  
 cataagcctc ataaaggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360  
 atacaaacca aacttgggtc tgaaagcggg tntccactca tcgccctttt tcacccctgat 420  
 tnggtgataa ccacttttaa gaatcaattt tg 452

<210> 13423  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13423

cttgatccgc ctctatattt tccacaatcc catcctccct ccagataatg agcttctggg 60  
 gaagggtaga tggcacagct ccaactccat gaatccactc ccttcctaag agcaaggttaa 120  
 aattagcctt agactgtatc accaggaaaa gagttgggtc aactatactg cctacagcaa 180

catctacttg aatggctccc aaagaatagc cagttttacc ctcataattc gaaagcacia 240  
 tgttgtgggc agatagatca gtgtcatgtt tcccgatctt gtagagcata gatcgaggca 300  
 ttaagttgac agccgctcct ccatcaatga gcactntgtt gattccaaca ttctcaactt 360  
 ttgctctgat gaaaagaggt ttgagatgaa ttntcatctg aaaatctggc tnttcgaaat 420  
 aagctaattg ctcttcacac cagccattat tcataacata gtaacatac 469

<210> 13424  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<400> 13424  
 agctagaaga ttcatttgga ttttgtgaac ttggtatagt ctaaagtctt atagtctgga 60  
 tctttaacct ccaattgtgt ttgtcaaaga atattttaga gattaataaa aattgtgtag 120  
 tcatttcaaa agcaggtggg ataaattaca aatgttatgt gccaaagata ctacttatcc 180  
 actttttgat atgatccagg ttagcagagt tgaaataggt tatttatatt tataatcaca 240  
 tatttatcct tttttatgga tttgaagaga cttttaaaaa gaaaatggaa ctttatggat 300  
 tctacattgt tattaatatc acacataata acatacaacg atattcatag tcatattctt 360  
 ttaattttta cgtgaattta attaattgaa ctatttttta aacatcataa acaaaatcca 420  
 tatcttttac attaattgaa ctacttttga attgttacta ttcttctaac a 471

<210> 13425  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13425

ggatccttaa gcacctgagg ctgcagctgg agaaagctga gatgtttgtg ttacatgcc 60  
 taactgacgc aatcctaccc cgcaagggca ttggatagaa gactccaagt agattggggc 120  
 agagatccaa gggaaggccc tagggttctc atgagcetta gggtagattt tgaccccatg 180  
 ggctaagtat gagcccgtt atctttgtaa atattagaat agggtttttc cttcgtttag 240  
 gccttgattt ttggccattc tagtagtata aggttttagc cttgtatttc gaggcatttt 300



gagtagtctt tgtagttggg accttttttg tttttcatg tatnttgta tgggggtgag 360  
 cttagatatt gtanggggcg tgtagcanag ttctagcttc tcatctc 407

<210> 13426  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13426

ttgaatgctc tattcaatgg agttgacaag aatatcttca gactgatcaa cacttgca 60  
 gtggccaaag atgcatggga gacctgaaa accactcatg aaggaacctc caaagtgaag 120  
 atgtccagat tgcaactatt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180  
 tgtattcatg acttccacat gaacattctt gaaattgcc atgcctgcac tgccttnga 240  
 gagaggataa cagatgaaaa gctgggtgaga aagatcctca gaccttgcc taagagattt 300  
 gacatgaaag tcaactgcaat agaggaggcc caagaacatt gcaacatgag agtggatgaa 360  
 ctcatgggtt cccttcaaac ctttgagcta ngactctcgg atagggctga aaagaagagc 420  
 aagaatctgg cgttcgtgtc anatgatgaa ggagaagaag gtgagtatga ccttgatact 480  
 gatgaag 487

<210> 13427  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 13427

accttgctaa ttcaattagg aattcccttc ctaatatctt agtgcacatc ttgatgttgt 60  
 gacttgtaat cttgaagtat tgtcttgaat tttaatcttg aaaagcccat ttgcatcaat 120  
 tgcaacacat catcatgatc atcatcaaaa catcaaagcc aattgcatct acacatgtgt 180  
 cctccacctt cgagattgga gctatgtttc acgattgcct aagtgcggac cctcaaggca 240  
 atccgccatt ctcccttttt ttttcggaga cccatgaatg ttattgccta gcgctattca 300  
 tgtgccctcc accttcgagg ttggagctat gtttcatgat tgcctaagtg cggaccctca 360  
 aggcaatcct ccattctccc cctttttgga gcccatgaa tgtaactgtc taacactgtt 420  
 cacgtgtcct 430

<210> 13428  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<400> 13428

agcttcattg agaaaacttc cttgagaagc taatgcttat ctacacacac ccctctcata 60  
 actaagctca cctccttgaa aagt<sup>4</sup>ttcctt aagaagattc ctaaagaagc tagagcttaa 120  
 ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct agaacttagc 180  
 tacacacccc ctataatagc taagctcacc cccatgacaa aaaacatgag aatacaaaaa 240  
 aaaagtcctt actacaaaga ctactcaaaa tgccccgaaa tacaaggcta aaaccctata 300  
 ctactagaat ggccaaaata caaggcccaa atgaaggaaa aacctattct aatatttaca 360  
 aagataagta ggctcatact tagcccatgg gctcgaaatc taccctaagg ctcatgagaa 420  
 ccctacggcc ttccttgga tttctagccc aatctac 457

<210> 13429  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<400> 13429

gactcttgta agttggcact tggatacatc tttgtgatag ttaacagagc aatatcttgg 60  
 agaagagcta aacaatcatt agttgccacc tcaactatgg aagcagagct tgtctcatta 120  
 tttgaggcat catctcaaag ggtatttggg tgaaacaatt cattgttggg ctacaaatag 180  
 ttgatttcat atatagacca ttgaagatat attgtgataa taaagctgct atttttctgg 240  
 ctaaaaacag taaaagtgga agcaaagcaa gcatattgtg gaaacaaaag aaatcattac 300  
 tcaacaataa attaattgatt 320

<210> 13430  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13430

nttaaaagat atttactctg tggtaatcga ttactagtga ctgtaatcga ttaccaatgg 60  
 ccaaaatgct tattagaatg ctctaaaatg tttaatattt tttaaagttt gtaattgatt 120  
 acacaaggct tgtaatcgat tatcagaagt tnttgaacat tttaaaacaa cttttagaaa 180  
 tttgaattta aatttcaaag cctgtaatcg attacagagt gtatgtaatc gattattaga 240  
 gttaatatc aaatttcaaa tgtgaaaagt cacaactctt cagaatacaa ctgtgtaatc 300  
 gattacatca ttctggtaat cgattaccag tgaggaattt tctaaaataa ttcctaacag 360  
 tgattttgaa tggccatcaa tacatangtg acttgggaca caaattttc 409

<210> 13431  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13431

acgacaataa ctntatacaa ggatttccga ttgagtcccg taatatatcg agacgtcca 60  
 cattgaaaat ggaaactcgt agcaaatttg aacgacaata actntttact cggatgtccg 120  
 attcagccct gtcatatatc gagatgggtcc agattgaaaa cgcagtcttg tacaaaattc 180  
 aaaatacaat aacttttcac tcggatgtcc gattgagtcc cgtaatatat cgagatgtc 240  
 caaattcaaa acggtagctc gtagcaaatt caaacgacaa taacttttta cttggatgtg 300  
 cgattgagtc ccgttatcga gacactcgaa attgaaaacg gatgttcata gcagattcat 360  
 atgacaataa ctttatactc ggatgtgcta ttgagtcgtc gcctatatag agatgtctcc 420  
 aa 422

<210> 13432  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13432

catgcaagct tcttcacata gaccgccttt gctcgacctt ctttatgact aaaaacagac 60  
 acattatgca taagcaaaag atcaagagga gttagtggat taaaaccata aacaacttca 120  
 ataggagaac aattagtggg gccatgaaca gttctatggg aagctaattc aacatggggg 180

aaacaagctt cccaagtttt taagttatac ctcaaaactg gcctaagcat agttcccaaa 240  
 gtcctattaa caacttccgt tagccatcgg tttgcgggtg acaagtgggt gaaaataaca 300  
 atatagtgcc caacttgctc cacaaagtcc tccataaatg caaatcatca tgcctaggtg 360  
 taggatgcct atatttaatg gtgatgttat aagggctcta caatcagaac acatgcgcca 420  
 tgtcccatc ttnttaggga ccaaactact gggacagcac atggactcat ac 472

<210> 13433  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13433

agcttctata gaaggttngt tcctaatttc tctacaattg cctcacctct caatgagctg 60  
 gtaaagaagc atgtggcatt tacctgnggt gaaaaacaag agcaatcctt tgctttgctc 120  
 aaagaaaagc taactaaggc acctgttcta gctcttctg acttttctaa aactntttag 180  
 ctagaatgtg atgcctccag agtgggagtt ggagctgttt tgttacaagg tgggcactct 240  
 attgcttatt ttagtgaaaa acttcatggt gccaccctta actaccctc ctatgataaa 300  
 gagttttatg ccttaataag agcactctga acttggaac attaccttgt atcctaagaa 360  
 tttttcattc atagtgatca tcaatcactt aagttcatta gagggcaaag caagttaaac 420  
 aaaaggcatg caanatgggt agagtaccta gagcaatttc atatgttata aatacaaaag 480  
 ggaaa 485

<210> 13434  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13434

tattacggac actataaaac tcagcttcac attcataccg agcgtctcga tatactacgg 60  
 gactcaatca gacatccgag taaaaagtta ttgtcgtttg aatttgctca gagcttcggc 120  
 attcaagtcc gagcgtctca atatattacg ggtctcaatc agacaaccga gtaaaaagtt 180  
 attgtcgttt gaatttgctt agagcttcgg tattcaattt cgagagtttc gatataattac 240

gggattgaat cagacattcg agtaaaaagt tattgtcgtt tgaatttgca cagaacttcg 300  
 gtattccatt ntgagcaact cgatatatta cggactcaa tctgacatcc gagtaacaag 360  
 gtattgtcgt ctgtaattgc tcagagactt gataatcaat ttcgagcgtc tcgatatgt 419

<210> 13435  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13435

agcnttgagt accttcatac aacaataact nntactcgg atgtctgatt gacacctgta 60  
 atatatccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120  
 tntctactcg tatgttcgat tgactctggg aatatatcga aacgctcgaa attgaagacc 180  
 gaaggctcga g'caaattcaa acagcaataa ctttttactc ggatgtttga ttgagtcccg 240  
 tagtatatcg agacgctcgg acttgaatgc cgaagctctg cgcacattca aacgacaata 300  
 acttttttcc tcggatgtct gattgagtcc cgtaatatat cgagacgctc ggacttgaat 360  
 gccttagctc tgagcaaatc caaatgacaa taacatttta ctcgga 406

<210> 13436  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 13436

tatatctgat cgccatagtg atacattcaa aaaagatata ctgtgcatct tcccgatcaa 60  
 agtatcgccc atcaccatcc aacaccaaca agccattctt cgaatcctcg ggaggcaatg 120  
 aattatacag ggcctacaga tgcacagaat tctcattac aaagcaaagc cataattcat 180  
 gcaatcatac attgcatgga aatctacaaa cctgtatcca atttgcgaga gaaaagactt 240  
 gcataaacac tttcacctgc aaaacaaata tgcctataat taattatatg gaaaatacta 300  
 ctctcacact tccaacatgg agctacaccc gtcaatactt ccttataact gtgtccaatg 360  
 tggttac 366

<210> 13437  
 <211> 388

<212> DNA  
 <213> Glycine max  
 <400> 13437

tgtaagggtta aagtctcacg attgtcacgt gttgatgcaa caatgggttag tcgtggctat 60  
 acgagacatc ttgccaaaca aagtcaagtt agccataact cgcctgtgct ttttcttcca 120  
 tgccatatgt agcaaagtcg ttgatcctgt caagtttgat gagttggaaa atgagaccgc 180  
 aattatacta tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240  
 cttgattgtg catctggtca gagaaatcaa atgttgtggt cctgtttatt tgcggtggat 300  
 gtacccggtt gagcgataca tgaagatctt aaaagggat acaaagaatc tatatcatcc 360  
 acaagcatct attgttgaga ggtacatt 388

<210> 13438  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13438

ggatccttaa gcacctgcng ctgcaagctg acaacgtcgt gaattttgta gtacattgta 60  
 tcaactagag gctgntaaac aatccaatcc agaaattagt gtgtcagtga gtgtagaata 120  
 agagacagcg agaagagaga aagaggaagg atgtggaatt actgtgctgc cccagcggtc 180  
 ttgaggatcg acgtcggcgc ctgctctgag cagcaagcca actacgtcgg tgcggccctg 240  
 gcatgcggcg acttgagcgc cgggtcggcc gtcaatgtca gtgaaattga cgtcactccc 300  
 ggcgccaag agtccttaa taccgtccga gtcgccttcg ttggccaaat acattaaccg 360  
 gaccg 365

<210> 13439  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13439

agcttgaatc ggacatccgt gtgaatagtt atgacgattt gaatttctca agatcttccg 60  
 ttgntcaatt tcgagcttct cgacatatta tgcaccgaa tcagatatcc ttgtgaaaag 120

atatgactat ttgaatttgc cgagagcttc cgatgtttaa tttcgagcgt atcgatatat 180  
 tactagcttg aatcggacat ccgtgtgaaa atttatgacc atttgaattt ctacgagctt 240  
 ccgttgtaa attccagctt ctcgatatgt gatttgctg aatcggacat ccgcgcgaat 300  
 agttataccc gttgaaattc tcaag 325

<210> 13440  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13440

nagcttanca tcagacagag cttgaagttt ctgctccctt gactttgcag cctgctcaac 60  
 ctttctcttg tacacatcca agcactcctg ttctaactga agaagcatct tgtctcgttg 120  
 ctcatcgctc tcaccaacct catcccatat ttctacagt gtataaagat aatgtaatta 180  
 tctaatecca ttattctgta gagcattctc atcttaagtg acaaagatga atagctgaat 240  
 gtagttagtt acctgaagct ttcttaacaa ggaaccacat gtgttttctc caagaagagg 300  
 attctgagct tcggtcactg ccattgaagt cccagcgaca cttaccctgc acctccaaaa 360  
 acaaaaatga catgaaaatt ttctctcctt ccaccaaacy aatagagaaa catc 414

<210> 13441  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13441

gaatcaagat tcaagaataa tcaagtttca agattttaatc aaatttcaag aatcaagatt 60  
 caagaataat caagataaag attcaagaat caagagaaga ctcaatcaag ataagtacta 120  
 aaaacgtttt tcaaaacatt gagtagcaca agaatttttc acaaaatcgt ttaccaaaga 180  
 gttttactct ctggtaatcg attaccagaa ggtagtaatt gattactagt agccaacatt 240  
 gttttcaaaa ctgatttaca aagctataat cgattaccat aatcatgtaa tcaattacca 300  
 atgttntaaa acattagatt tcaaatttca agagtcacaa ttagtgtaa aacattntca 360  
 aatcattttt aacttggtga attgattaca caatacttgg taatcgatac cagagtatct 420

annacgtttg attntcanna attannatga agagtcacat cta

463

<210> 13442  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13442

agctngtgta gcgataattc tagctgggaa aagtatttct cacctattac ccagatgtcg 60  
gtgcagcttg ataatagttt cctcctcttc cttgggtgtag tttcctcttt tgaggttttg 120  
ccttaggtaa ttcagccacc ttagtctgca actctttcca catctcgcaa gacctaacaa 180  
attaataaca acaacaacaa agtaaaacca attacaatgg attcatatat gatttagcta 240  
taagctgtgc atgtatataa ttaaattattg aatatatggc tcctacaaat tcatgtagaa 300  
gttaaaccac accttgaaaa cagagaagaa gaataattga aagccacatt ggcgactata 360  
ttgatggtac atactctcac atacttaatt tgtttctgac caaacta 407

<210> 13443  
<211> 485  
<212> DNA  
<213> Glycine max

<400> 13443

ctttcgaagt ccactgttga aatcatagca cgcttctctc tgtgaatagt ttcattccacc 60  
acttcattga gaatcagaat tccatggaga atgtgcctat tttttatgaa ggctatctgc 120  
ctttcatcaa ttaactcatc cagcagaatc ctcaacctat ttgccaagag ttgtgctatt 180  
actttataca tgcagccaat gagagagatg ggcctgtgat catttacaga ctgcggctga 240  
gatatcttat gaataagagc cacttaagag gcattgtgtc ctctaggaaa gcttccatga 300  
gcatggaatt catccacaaa tcttcgaaaa tcatgtttga gcagccccc caactccttg 360  
ataaatctaa aattaaaacc atctggcccc gagcatttat caccagcaca actccaaata 420  
gcatctctga tttctgaatc agagaaaggc gcagtcagct cctctctttg attatgatga 480  
atcat 485

<210> 13444



<211> 354  
 <212> DNA  
 <213> Glycine max

<400> 13444

agcttctggt gggacatcat gacttgctat ccattctgat attcaccaca gattctgcct 60  
 tcttctatctt tcagattggt aatgcctcta acagcacctt tgtcaatgat tatcttcatg 120  
 cctcttaagc gcagatgtcc aaatctttga tgccatattt tgacttcacg ttctttggat 180  
 aatagacatg tggaggagca actgtgttct tgagggtgtc atatgtgaca cgagtcctta 240  
 gatctgctgc ccttcaatag gactttactc ttttcattag caccaagcat tctgactttg 300  
 cgaagattac attgaatcct tcattacaca actgactgat gctgatcaag ttct 354

<210> 13445  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 13445

gaatactact ggacataatg ggtttcctgt cattgatgat ccacctttct cagattcacc 60  
 agagctatgt ggacttgtag tgagggtctca tttactagtg ttactgaagg agaagattct 120  
 ttcaagggat aggggttttg caaatcaaag gatctttcaa agaatttcta ctttggattt 180  
 tggacaggcg ggatcacgaa acgggatcaa actacaggat cttgatatcc aagaggaaga 240  
 gatggatatg tatgttgatc tccatcccat aactaatgca tctccttaca ctgtggctga 300  
 gacaatgtca ctagccaaag ctgctattct tttccgacaa catggactca agcacatgtg 360  
 tgttgttcca aagaaccaat gggatgata tcttttcttt tccctccac aaaatgatat 420  
 tatatactcc ttcaactgaa tctgtcatat gcattctt 458

<210> 13446  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13446

tgctcgcac atcaactgga gtggatcttt attatacata acacacttag tttatgtgtc 60  
 atccagtga gctagattac ccgggtgtga cctttaccta tccaaaggac taggactgag 120

ccctgatact caacgagtca tgctctatct tgctgggtgt tcgggaagcg tggccggctt 180  
acgtgttgcg aaagacatag ctgataacaa ccctggaagc cgagtgtga tcgctatctc 240  
agacactaca attatttgt tcaagccacc aagtgcagat agaccttatg atctagntgg 300  
tgtggcactc tatggggatg gtgctgggtgc aatgataatt ggctcatacc caatattgga 360  
gtatgagaag cctgtctttg agcttcacac tgcagttgac gaggttttgc cgcacactg 419

<210> 13447  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13447

ctaagcttaa catcagacca cttccagggt gctggaacta cttcacatgg acttgatggg 60  
gcctatgcaa gttgaaagcc ttggaggaaa aaggatgcc tatgttggtg tggatgattt 120  
ctccagattt acctgngtca actttatcag agagaaatcg gacaccttg aagtattcaa 180  
ggagttgagt ctaagacttc aaagagaaaa agactgtgtc atcaagagaa tcaggagtga 240  
ccatggcaga gagtttgaaa acagcaagtt tactgaattc tgcacatctg aaggcatcac 300  
tcatgagttc tctgcagcca ttacaccaca acaaaatggc atagttgaaa ggaaaaatag 360  
gactttgcaa gaagctgcta nggtcatgct tcatgccaaa gaacttcctt ataattctctg 420  
ggctgaagcc atgaacacag catgctacat ccacaacaga gtcacactta g 471

<210> 13448  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13448

agcntttgag caattcanat ggtctgaact nttcactcgt agctctgatt taggcacatc 60  
acatatatag acgctcgaat ttgaacaacg gaagctctcg agatattcaa atggtcataa 120  
cttttaactt ggaggtccga ttcaggcaca taatatatcg agacgcccg aattcaacaa 180  
cggaagcact tgagaaaatc aaatgggtcat taattttaac tcggaggtcc gattcaggcg 240  
catcacatat agagacgctc gaaattgaac aaaggaagct cttgagatat tcaaatggtc 300

attacttntc actcggaggt ccgattcagg cacataatat atcgagacgc ccgaaattga 360  
actacggaag c 371

<210> 13449  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13449

gcttacaata gagctgntca tagcaccact aattgttctc cttttgaaga tgtttatggt 60  
tntaaccac taactcctct tgatcttttg cctatgccta atgtttctgt ttttaagcat 120  
aaagaaggtc aagcaaaggc ggactatgtg aagaagcttc atgagagagt caaagatcaa 180  
attgagagga agaataaaaag ctatgctaaa caagccaaca aagggagaaa gaaggttgtc 240  
ttcgaaccgc gagattgagt ttgggtgcac atgaganaag aaaggtttcc ggaacaaagg 300  
aaatcaaagc ttcaaccaag gggagatgga ccatttcaag tgcttgaaag aatcaatgac 360  
aatgcttaca aagttgagct gcccggngag tataatgtta gttccacctt caatgtctct 420  
gatntatctc tntttgatgc agatg 445

<210> 13450  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13450

agcttgaatc ggacatccgt gtganaagtt atgtcgattt gaatttctca agatcttccg 60  
ctggtcaatt tcgagcttct cgacatatta tgcacccgaa tcggatatcc ttgtgaaaag 120  
ttatgactat ttgaattctc cgagagtttc cgatgtttta tttcgagcgt atcgatatat 180  
tataagcttg aatcggacat ccgtgtgaaa atttatgacc atttgaattt ctcaagagct 240  
tccgttggtc aatttcgagc ttctcgatat gtgattcgcc tgaatcggac atccgtgtga 300  
aaagttatac cacttgaatt tctcaagagc ttccgttggt cagatttgag cgtctcgata 360  
tgtgatttgc ctgaatcggc cattcgtgtg aaaagtatta ccatttgaat ttctcaagac 420

<210> 13451  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13451

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gcagaggagc ataaaccaca gactcttgcg acaggtagag atttctgatt caaggccagc 120  
tggtttacca agttaaccaa tgcatttagt ttgccttcaa gcttcttagt ttcagatgat 180  
gcagatgagt ttgtagctac ctcatgcact cctctaataga ctatagcatc atttctggcg 240  
ctaaactgct gggagttgga agccatcttc tcaattaaat ttttggcttc aacaggagtc 300  
atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat attactgagt 360  
ccttcataaa aatattggag aagaagctgc cccgaaatct gatggtgagg gcaactggca 420  
cantaatttt taaatctctc ccagttattca tataggctct cttcactgag ttgtctaata 479

<210> 13452  
<211> 457  
<212> DNA  
<213> Glycine max

<400> 13452

caggctccct ctaattcatc gagtaactca tcaatgggtg gaattgggaa tctgtccttg 60  
acggtaatgt cgtttaaagc tctgtagtca acgtaaaaat gccatgatcc atcacgtttt 120  
ttgaccaata atacatggga tgagaatggg ctagtgtctg gaattatgcc actccggagc 180  
atggtttcta cctaagtttc gatttcttat ttttgaaaat aaggatatcg ataggggtcaa 240  
acattgatgg gttcagagtt gggatatcaag tgtatggcgg gattgggtgg gtgggatggg 300  
gggaggggtca ttggtgtgtg gaatatggtc acgaattgtg tgagttaatt gcgtatttct 360  
gggtattaag cattgtcgaa cgtgggtagt ggattgtcgg agttgatgat acgtatgtgg 420  
aagaaaatac taacactgtc catatgtact attcatc 457

<210> 13453  
<211> 474  
<212> DNA  
<213> Glycine max

<400> 13453

gtagattgaa gaaggtaatg ctagacataa tagatgaaag acagtctgca ttcataagggtg 60  
gaagacactt gttgcatagt gtattgatag ccaatgaagc ggtggaggaa gcaaagaggt 120  
gccaaaagtc atgtttggtg tttaaagtag actatgaaag agcatacaac tccgtctcgt 180  
gggatttcct atcatacatg atgcgaagat tgggcttctg tcccaagtgg attcattgga 240  
tcgagggtta ccttagctca gcctcggttt ctatattggt aaatggtagc cccacaaacg 300  
aattcattcc acaaagaggc cttatacaag gtgatccctt agcgctcta ttgttcaata 360  
ttattgcgga aggcctaacc ggtttgatga gagaagcatt ggataagaag ctgttttagca 420  
gtttcctagt gaggaaaaac aataaggcag tcaacatctt acaatacact gatg 474

<210> 13454

<211> 459

<212> DNA

<213> Glycine max

<400> 13454

agcttgtaat cgattacaca catactataa tcgattacca aaggagtttt tcagaaaaca 60  
ttctcaacag tcacatcttt ttatctgttt cttaaagtc catcaaaggc ttgtatatat 120  
gtgacttgag acacaaattt tgataagagt tttgaagatc aaaaaggctt tctcctctta 180  
acaagcaaaa ttgttttatc ctcttaaaaa ttccttggcc aaaacacttg tgattcaata 240  
aggaattatt tgagtgtca aattgttcaa tctatctctt tcaagagaga tttcttcttc 300  
tcttcttctt tattctgaaa agggattaag agaccaggg tctcttggtg tgaaagaatt 360  
ctaaacacaa aggaaggatt gtctctgtgt gtttagaact ttgaaaagga atttacaaga 420  
tagtgaaact ctcaagcggg ttgcttgggg actggatgt 459

<210> 13455

<211> 502

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13455

ctattacgga cctataaaac tcagcttggt acaattctct catcctatcc tccaactccc 60  
atgtagaatc accctcatcg gttccccact gcaccttcac caacgcgatc tcctttcctc 120

tcaacgactt catccttcgg tcagtgatct tctgaggttg tgctctatag gtgaggttat 180  
 ccttcacctg tacctcgtcc actgcaagta tatgtgatgg atctgggttg taccgtctca 240  
 gttgagagac atgaaacaca ggatgcaaact tcgataaact cggaggtaag gcgatatgat 300  
 aagctacagg cccaatcttc ttcaaaatct gatatggacc tagatacttg ggtgtcaact 360  
 tcctagcctt aagagctctt ccgactccgg ttacgggaga aaccttcaaa aacacatggt 420  
 ctcttctctg aaaatctagt ggcttctctc ttctatcata atagctcttc tgcttctct 480  
 gagatgctnt tatcttctct cg 502

<210> 13456  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 13456  
 agcttcagaa ttcaatttcg atcgtctcga tatattcagg tctcaatcag acatctgagg 60  
 aaaaaagtta ttgtcgtttg aatttgctga gagcttcaac attcaatttt gagcgtctcg 120  
 atgtattacg ggacttaatc agacatccga gttaaaagtt attgttggtt gaatttgctg 180  
 agagcttcaa cattcaattt cgagcgtctc gatattttac gggactcaat cagacatccg 240  
 agttaaagtt tattgttggt tgaatttgct gagagcttca acattcaatt tcgagcgtct 300  
 cgatatttta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360  
 tgagagcttc aacattcaat ttcgagcgtc ttgatgtatt accggactca atcagacatc 420  
 cgagcaa 427

<210> 13457  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 13457  
 agcttatgaa cctcatatga acttagtgga ttttgtaaca aattgtaggc aataacaatg 60  
 cattgactaa tagtttcatc ctcgaaatct tatcaatcct ccaaaacaag catgagaaca 120  
 tattccagta catccatgcc ttttcattct atttagaata attaatgaaa aagtcgatgc 180  
 tacctaagac aagcaaaatc acaataaagg ccttcatctc taaagattag ctcatttaag 240

aatgtcaaaa ctggcatcaa tcctttcttt gtaagccaaa atatggcaca aaagctaaaa 300  
gagcaaataa caacaaaaca taaaatctaa taaggctaatt cacaaaaaaa 360  
tagagtagat agatattatc ttataaagaa actaaagagt tgctcacacg atgaaatgtg 420  
tatat 425

<210> 13458  
<211> 414  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13458

agcttatcaa tgtggcagtt ccggtgacca ttgacgaact ggcgatcaat acaaaanata 60  
tactcaatcc atgggaaagg aatgaaaatc acacactttg cctcaactct gctaaagcaa 120  
ttggatgtac agtagtcaac attggcaccc aggacttcat tgaaggaagg gtatgcttgt 180  
aggcattcaa gtttccaccc ataaaagcag aattattgtg ggcgtgtaca ctgcagaaca 240  
acaaaattta agattaaatt taattttataa atgaaatcct ttgttaagtt atgaaatagg 300  
aattttttta ttttaaaatc aaatcctttg ttcagaaagt tataagaaat cttttttttt 360  
ttttttttta ttttagttgt gtataactaca aagaaatctg gtcaaactctg atta 414

<210> 13459  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13459

atcttgttca tcaatggagt nccttgcttc ttgaagatta atggtagcgg aatggagatg 60  
gaagaatact gattggaaat gccacttcaa ggagaagatg agtcaagaag aagctcacca 120  
ccatatgaag ccattggataa gagcttgaag gtaggagaaa ataacacgag ggagagggag 180  
agaaggaaca caacattntg tgcttcaaaa caggcttgaa ctttgaagtg taattctcaa 240  
atgatcaaag ttgaaaaatg cacacacatg acctctatct atagcctaag tgtcacacan 300  
aattggaggg aaaattgaat ttctattcaa aattcacttg aatttgaaat tgaatttgtg 360  
gagccaaaat ttcattaatt atgattaagt gaatttcagt atg 403

<210> 13460  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 13460

gagaataatg tctaattctt gaagtctaatt ttctcaaagt atcgaagatg aaaaatgcac 60  
 acgcaacggc tttatatata gccttacagc acaccaattg gaggaatttg aattttattga 120  
 atttccttgg atttaatttg aggagcccaa atttcaccaa ttataattaa tgaatttccg 180  
 atatggtact acccactaat gcaagatcaa gtacaagatt ctgcactaag tgtgcttaag 240  
 tgtcatgaag catgtatagc atgaacgaca tgcacaaagt gtgactatat gatgtggcaa 300  
 tgacgtgtag caagcaaagt ttcaccttcc cctt 334

<210> 13461  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13461

atatggagct gactggcagg tcaaaagcct cgagcacgga atatattaat aagttctcgg 60  
 catctctcct ctcatcttga cccctttgga tctgtgtttg aagatgactt tagtttttgt 120  
 taatgttatt tatctgattg tttattgaaa caatatacaa ctttagagca tagacctata 180  
 aggtaccatc catgggtgta ttggacatac gtgtagcttc tagatgctat tgtaacattc 240  
 tngttgaaga tatgtaatat ggaccagtaa tggatcaatt tcgtanaaga gcttactcgt 300  
 tattatatta acgtttacca ctctagttaa gtcgctcca tacttaatat ggataatgat 360  
 tttattatga tataacttacc gtctaacgga ct 392

<210> 13462  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13462

atgactgttn gactatgcct tgtngcttca tgtntaatt tgaacatctc gatatattat 60



gcgcctgaat cgggcatcnt gagtgaaaat tatgccatat gagttagtcg acagcttcgn 120  
 tgggtcaaatt caagcgtgtc gacatattat tggcctgaat cggacatctg agtcanaagt 180  
 tatggcagtt taaatttcca tgtgcttcca tgtttaattn tgagcatctc gatatattat 240  
 gcacctgaat cggacatct 259

<210> 13463  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13463

ctttcactcg gaagtgcgaa tgagtcctgt tatatatcga cacgctcgan nattaaaccg 60  
 aagctcatag cacattcgaa cgacaataac ttctcattcg gaagtctcga tgagtcccat 120  
 aacatatcga gatgctcaaa atagaaaaca gaagctcggt gcatattcga acgacaataa 180  
 cgttntactc ggatgtccga ttgagccccg taatatatag agacgctcga aatttaacac 240  
 cgaagctcgc agcanattct aacgacaata acttttact c 281

<210> 13464  
 <211> 182  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13464

ctaccaacta caaaccttaa gaaaactata ttatctacac aaaaagtaca cttctctata 60  
 tttgcataga ggggtggttt cctaaggact ganagaactt gcctgagatg tcctaagtga 120  
 tcacttaggc tctactgta cactanaata tcatcaaat aaacaactac aaatctacct 180  
 at 182

<210> 13465  
 <211> 205  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13465

gacaataact atttactctg atgtctgatt gagtcccgta atatatcgag acgctcgaaa 60  
 ntgaatgttg aatctctgaa catattcaga cgaccataac tttctactcg gatgtctgat 120  
 tgagtcccggt tatatatcga gacgctcgaa attgaacgcg gaatctctga actaattaaa 180  
 cggctatact cttcactcgg atgct 205

<210> 13466  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13466

ttcttctaga cttagagaga taacatgtaa tcctcttgaa cccttacctt ccactctctc 60  
 atcatgccga gactccggaa ccctaacagg ttttgccctt tccatgtact tgaaacanaa 120  
 ctcaatagct tctttctcaa tgtacctttc aacaatagat gctntacgac ggtgtagatt 180  
 atntgtatac cattntaaga tegtcatgca tcaactcaacc gggtagatcc accgcanata 240  
 aacgggaccg caacatttaa tntctctcac catatgaaca atttagtgaa ccatgatgtc 300  
 aaaacatgag agaggaatat atatctccaa ctgacatatg ataataatag cctcattttc 360  
 tagctcatct aacttgagag gatcaatgac tnntgcacat at 402

<210> 13467  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13467

cctactatat actatcttct ctccatgtnt cagtaggatg aagttggtgg ttctatcaca 60  
 tatagggcat gcatgatgtc ntttgacact atatccactt aaatttccat atgtnggaga 120  
 gtcattaata gtacaaaaca ctattgaacg taacctgaag gtctgttgca tattggcatc 180  
 ccatacatca accccgtctt ctcacnaatt tctcatgtct tcaatcaatg gattgagata 240  
 cacattgata tca 253

<210> 13468  
 <211> 303  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13468

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ggattctctg agcattcaag aagaaaatgt gacttctnta cctcatgtac ttgatcttct 120  
agcagtgtaa tgcattcttc ctgtanatca ttctgtggca taatctact canaactntg 180  
ctgaaacgag tgcttttatn gttttgtaag gatcgtcttc tagcatttgt catggatctg 240  
tcagtaacca ccattggctc attctcatct gctatagtaa cagcagctgg tgtcttctct 300  
ttt 303

<210> 13469

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13469

tctgaagctt gtaatttttt tcatgtatc ttttagacta tttattatgg aagcttatct 60  
tgttacatat ttcaagcaac aatattattt aataataaga tcagattttt attggtcatt 120  
atatacgaag tagattataa tttagtgggt atctaaatat tttattataa tttaaaaagt 180  
ctaatacag aatcaccact ctgggattat catctacaat ggatacatgt gctactatat 240  
actttaatta tataccaccat acatgttgaa tcaccagta ccaaatacata tgntacacaa 300  
acactaccac ccattctcgg tgctaattag gtctgaatat aaagcttttt ttgaaatt 358

<210> 13470

<211> 170

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13470

aaccttagat ggtcgaatcc ttcacaacat caacaacaac cttatnttca aaatgtggct 60  
ggccaagca gaccatacgt tctccacca atccaacaac aacacaaca acagcctcag 120  
atagaacaaa cagttgaggc ctctccacaa cttcccttg aagaacatgt 170

<210> 13471  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13471

ctcgagagct tccgttgtca atttctagcg tctcgatata ttatgcgccc gaatcggatc 60  
 tccttgtgan anagtatgac tatataaatc tcacgagaac ttccgttggt caatttctag 120  
 cgtctcgata tattatacgc cagaatctga catccgagtt ataaagtatg accatttgaa 180  
 tttctcaagt gcttccgttg gtcaatctcg agcgtctcta tatattatgc gcccgaaatca 240  
 gatctccttg tgaaaagtat gactatt 267

<210> 13472  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13472

gcgacacaca actcccaccg catatagaat atcgggcctt gtattgggta gataccttaa 60  
 actcncaca agactctnga agatcgngga gtctaccttc tctccttcat cannaattga 120  
 taacttctaa gccaccttca taggtgtggt cacgggaatg caatcaagca tattaaatnt 180  
 cttcaacact tcttttgtgt agctttcttg tgagacaaag ataccattct tc 232

<210> 13473  
 <211> 210  
 <212> DNA  
 <213> Glycine max

<400> 13473

ctcactgaca atctccttgg atagaagctt ctcttgattg aaatgacaat caatctctat 60  
 gtgcttactc ctttcatgaa aaactgcgtt cgaggcaata tgaagagcat cctgattatc 120  
 acaatacaac ttcaatggta actcttcata atacctcaat tctcgcagaa gctgtcta 180  
 ccacattagc tcacaagtaa ccatagccat 210

<210> 13474  
 <211> 267

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13474

aatgcctcta acagcacctt agtcaatgat nttcttcatg cctcttaaga gcagatgtcc 60  
aaatctttga tgccatatat tgacttcacg ttctttggag gatagacatg tggaggagta 120  
actggtttct tgagggtgcc atangtaaca cgtgtccttt gatctgctgc ccttcattag 180  
aacttcactc ttctcatatt gcaccaagca ttctgacatt tgtgaagtta catttgatcc 240  
ttcatcacac aactgactga tgcttga 267

<210> 13475  
<211> 294  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13475

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atgaagagcc aatgtgtgat acatggacgc agatgaaaaa natcatgang aagatgtatg 120  
tgccggctag ttactcaagg gacttgaaat tcaagctcca aatactaact caaggaagca 180  
aggggggtnga ggagtatttc aaggaaatgg atgtgctcat gattcaagca aagatngaag 240  
aagatgaaga ggtaactatg gctcgntttc ttaacggtnt gactaatgat atct 294

<210> 13476  
<211> 453  
<212> DNA  
<213> Glycine max

<400> 13476

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gcaatagggt gccaccttg taacaataca gctccaactt ccactccaga ggcacacat 120  
tctagctcaa aagttttaga aaagtcagga agagctaaaa caggtgtctt agtaagcttt 180  
tctttgagca aagcaaaggc tcgctcttgt ttttcaccct atgtaaagc cacattcttc 240  
ttcaccagct cattgagagg tgatgcaatt gtagagaaat tatgaacgaa ctttctatgg 300  
aagcttgcta acccatggaa gctcctaata tcttctaata accgaccact aacctataat 360

acataattac cattcttaga accgcagttt catgggtggt tgcattactt taattccatt 420  
tatgtacaat tccaacaaac tatttagtct ata 453

<210> 13477  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 13477

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taaaaagttg ttgtcgtttg aatttgctca gagcttcggt attccatttc gagcggtctcg 120  
gtatattaca ggactcaatc agacatccga gtaaaaagtg attgtcgttt gaatttgctc 180  
agagcttcaa cattaatatt cgagcggttc gatatattac gggactcaat cagacatccg 240  
agtaaaaagt tattgtcatt tgaatttgct cagagcttcg atattccatt tctagcgctt 300  
cgatatatta cgagactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360  
tcagagcttc ggtattccat ttcgagcgtc tcgatatatt acgggactca atcagacatc 420  
cgagtgaaaa cgtatt 436

<210> 13478  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13478

agcttcccaa gtctntaagt tcttctcan aactgtccta agcaaagttc ccaatgtcct 60  
attaacaact tctgtttgcc tatcagtttg tgggtgacaa gtggttgaaa ataacaattt 120  
agtgcccaac ttgccccaca aagtctgca aaaatggctt aagaacttag agtccctatc 180  
actaacaatg ctcttggca aaccatggag tctcacaatc tccttgaaaa acaaatcagc 240  
cacatgggaa gcatcatcaa cttttttaca tggaataaaa tgagccattt tagaaaacct 300  
atcaacaacc acaaaaatgg agtctctacc accacttggt tttggcagcc ccaaaaacaa 360  
atccatggat aaatcaatcc aaggatactc cggaattggc aatggagtat acaatccatg 420

<210> 13479

<211> 381  
<212> DNA  
<213> Glycine max

<400> 13479

agcttgagaa gagcctcctc atacccttta tagaagtcaa agtaatcatc tttcaaata 60  
acccttttat gggctcctaat ccgcttttctt gtttctctc aattttttca tttgcatggc 120  
tttctctctc accgctcgtg gaaaaagtga tgatcttttt gttctatttt ttgcgggggtg 180  
tggtgaaaag ggtttatcgt ttgtttgttg cgtctgattc gcagggtgaa tgcacgattc 240  
caaaggatga tggaactctg gtttcctatg tgggattcaa gatccaacat gataatgctc 300  
gtggctctat gaaggaggagg attacgtatc ctcccgaagg tctcgggggtt tgaaccttta 360  
tattgatttt gtttctcatc a 381

<210> 13480  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 13480

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ggcgataaac atccatcatg agaagagaat tgactcgccg gttgacaagg acctgaagaa 120  
cgactatgat gggattgaac tcgatgaaat agctcaagtg gctcttctat gtactccata 180  
ccttccaagc tacagaccat agatgtctga agtggatggg atgctagaat gagatgggtct 240  
tgcagagaaa tgggaggcct cacagagagc tgaatccaca agaggtagac gctatgaact 300  
ctcatcttca gagcgctact ctgatctcac tgatgactct tcattactag cccaagcaat 360  
ggaactatct ggaccaagat gatctacata gtcactgcga cactgaa 407

<210> 13481  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13481

ttcacgagag ctttcgntgt tcattntcga acgtctctat atgtgatgcg ccttaatcta 60  
acatccgtgt gaaaagttat gaccatttga atttctcaag agcttacgtt ggtcaattat 120

gagcctctcg acatattatg cgcccgaatc ggacatccgt gttaaaaggt acgagcattt 180  
 ggatttctcg aaagctatct tgggtcaatt ccgagcatct cgacatatta ttgcccga 240  
 tctgaccttc gtgtgaaaag ttatgaccat ttgaatatct cgagagcttc ctatgtttaa 300  
 tttcgagcga ctcgatatat tatatgcatg aatctgacct tcgggtaaaa gttatga 357

<210> 13482  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 13482

gcaagcttct atagaagggt cgttcctaatt ttctctacaa ttgcatcacc tctcaatgag 60  
 ctagtgaaga agaatgtggc atttaactgg ggtgaaaaac aagagcaagc ctttgctttg 120  
 cttagagaaa agcttactaa ggcacctggt ctagctcttc ctaacttttc taaaactttt 180  
 gagctaaaat gtgatgcctc tggagtggga gttggagctg ttttgttgca aggtgggcac 240  
 cctattgctt attttagtga aaaacttcat ggtgcgaccc ttaactaccc cacctatgat 300  
 aaagagcttt atgccttaat aagagcactc cgaacttggg aacattacct tgtttccaag 360  
 gaatttgtca ttcatagtga tcaacaatca cttaagttca tt 402

<210> 13483  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13483

atgttcttaa tactggacta atccatttgc ttccagagtt tcatggcctt gcaggtgaag 60  
 acccacacaa acatctgaaa gaattccata ttgtttgctc caccatgaaa ccccagatg 120  
 tccaggagga tcacatattt ttgaaggcct ttctcattc tttagaggga gtggcaaagg 180  
 actggctata ttaccttact ccatgggtcca tcacgagctg ggatgacctc aagagagtat 240  
 tcttagaaaa aaatttcctt gcttccagga ccacgaccat cagaaaggat atttcaggta 300  
 ttagacaatt caatggagag agcctatatg aatactggga gagattaana agttatgtgt 360  
 cat 363



<210> 13484  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13484

gtctctatgg caggaatgat cactntaatt aattctgttc tgacagcctt gcctctgttt 60  
 tacctgtctt tcttcaaagc tccttcagca gtgttaaaga ggcttatttc gatccaaagg 120  
 aattttctat ggcgtggagg tgctgaaggg aaaaagattg cttgggcggc ttgggatcat 180  
 atctgagttc ctagaataca atgagggcta cgaatcaaag ctctcaagga ctctaataga 240  
 gcccttctca ttaaatggaa gaggctgctg ttccaccaat cagactactt gtggagcaga 300  
 attcttacct caaaatacaa aggttggaga tggttggagg agaattccca caagcagact 360  
 cattcctat 369

<210> 13485  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<400> 13485

ctcgtccgga tccttaagtc acctgcggca tgcaagctta tggctgtctt ctctgcttca 60  
 agaacttgga atcattacta gaatggctat tgaattatta gtagacagta aatctgctat 120  
 tgatctagca aggaatccag tctctcatga ctgaagcaag cacattgaga ctaaatttca 180  
 ttttctgaga gatcaagtgg ctaaaggaaa gggttaagcta gtacattgca gaactgaggt 240  
 tcagctagct aacataatga ctaaggcggt gaaggctgac agattcaagg agctgagaag 300  
 gaaaataggc gttcagagtt tggaggatta agaagttttg ttcagtaaata gttgttgtaa 360  
 tggttctgtt gttgattcac tgtttttgaa tcaaagggga gtgttaggga taattaattc 420  
 caaaatagtt actagtttgt tagtagttga tgggtggttag ttagttgttt tagtctatat 480  
 atagat 486

<210> 13486  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13486

agctttttaga anacgtcgat gtcaagtgtg tactattttt cttttatggt tcagttgtac 60  
atagcttggtg tcttcttcat agatatggca tgcacgatgg ttcttaacac tgtatccact 120  
caaattccgt atgctggaaa gtcatttatg gtacaaaata gcattgcgcg taacttgaat 180  
gtctcatttt gatacctacc aaacacgaca accctctcat cccataactt gcttaagtct 240  
tcaatcaagg gattgagata aacatcgatg ccatttecta ggtgtcttgg gcccgatatc 300  
atcatagaca ccatcatgta ttttcgcttc atgcacaacc aaggaggcaa gttgtaaatt 360  
actaacaaaa taggccacga actgtgttga gtgcttaaac tgtcacatnt cattagtagc 420  
aagttcaagc ctaagatttc 440

<210> 13487  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13487

agcttttctt tgtgggttga tgaactctgt cacgcagaat ggcattgatc ctggctgaca 60  
tattctcaat tagctcagtt gcctcttcag gaggcttcag ctttattttt ccccttggtg 120  
aagcatctag cagttgcttg gtttatagtc tcagcccatc tataaacata ttcaattgaa 180  
ttggctcaga gaacccatgg atgggattct ttctcaataa aactctaaac ctctccaacg 240  
cttcactcaa ggactcggtta gggaactgat gaaatgaaga gattgcagcc ttcccttccg 300  
cattctttga ctatgggaaa tatttcttca gaaacttttc tacaacttct tcccagggtt 360  
tcagactggt acccttaaata aagtagagcc acctcttggc ttctnctgcc aaggaaaatg 420  
aaaactggct gagtctaata gcctcatc 448

<210> 13488  
<211> 358  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13488

accaattggt cactaaagtt gacaaagtca atggtgattt ctcttatcg taatttctct 60  
 ctcacaaaat gacaatttat ctctgtgtct aatatgttca tggaagacta gattggatgc 120  
 aatgtgaaga gtggtttgat tatcacaaat aagcttatgg ccatatgttt cttcaaattg 180  
 gagctgccgg agaagttgtc atagccacgt aatttcactt acaactgctg ccaaggcaca 240  
 atattttgct tccgcactag atctaacaat tgtattttgt ttcttgcttc tncagtaaag 300  
 ataagtacct ccaataagaa cacaaaaacc agaggtagat ctctgcttg atggtgat 358

<210> 13489  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13489

agcttcatca acaacatcga tttcataata aaatagcatt ggttcttacc aaaaaccgat 60  
 gtctgttata agaaaacaac atctatTTTT agtgaaaatc gatgttgttt tattaccagc 120  
 aacatcgatt ttttactaaa aaccaatggt gtcttcatat attaacatcg gttttggtaa 180  
 aaaccaatgt tgatatgaag atatatgact ttttttata attcttacta tataatattg 240  
 attattttaa taatcgatgt tgtaatttta tgtaaacatc ggttttagaa aaccgatgtt 300  
 aaccgtatta ctttcaacgt cgatactttc aaaattgggt gaataaccaa ttggaaagtc 360  
 cttaataacc gatgtaaaaa cctattntct agtaatgtct caccctggt ctttcatg 418

<210> 13490  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13490

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 aaagaggata ggcttaaact ccaactgtac ctcacctcag aagtgttga cagccaaatg 120  
 ctcttcttag tcattgggtga gactcttgta gaaagcagaa tactcctcct ttgtgatctc 180  
 ctcaggcttt gtcactaaa tggccttggt cttgttcacc aatgagcatt catgtgacac 240  
 ttcttaatc ttctttttat tntgttctcc cttgtccttc tcttcatcaa catcctgcac 300

ctaagtacat gaaaaaatta cttattgaag taaaattgta attaaaaaaa taccaaaaaa 360  
 taaaaaaatt acattctana gtacttttnt agatgttatt cgttatgggt caagtaataa 420  
 tcatgatgaa aatngatcca tgtgtgtttg atttctttta tcagcaaata tgatatg 477

<210> 13491  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13491

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 attgaaaatn gaagctccta gcaaattcaa atggcaataa atttttactc ggatgtccgc 120  
 ttgagtccgg tactatatcg aaataactga aattgaaaac ggaagctcgt agcagatgca 180  
 gaccgcaata acatttaact cggatgttcg attgaatccc ctaatatatc gagatgctcg 240  
 aaattgataa tagaagctct gagcaatttc gaactacaat aactctatac tcggatgtcc 300  
 gatagaggtc cgtaatatat tgagatgc 328

<210> 13492  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13492

agctttagg aaattcaaac gataataact ttttattcgg atgtccgatt gaatcgggta 60  
 atatatcgag acgctcaaaa ttgagactag aagctctgag caaattgaaa tgacaataac 120  
 tttatacacg gatgtccggt tgagtcccggt aatatatcga gacgctccaa attgaaaacg 180  
 gaaactctta gaaaattcaa acaacaataa ctntttactc ggatgcccgga cagagtgtcg 240  
 taatttatcg agagatgctc caaattgaac acaaaagctc gtatcaaatt caaacgacaa 300  
 taacttttta ctcggatatc tgattgagtc ccgtaatata tcgagacgct caaaagttag 360  
 atccgaagct ctgagaaaat tgaattgaca ataactttat acacggatgt ccagttgagt 420  
 cctgtatata tggag 435

<210> 13493

<211> 388  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13493

actaccctng gttcgctaac atggaanact ttaaggccac agaacaacca ccagaaggta 60  
 taaaattcca caagagataa aggttcttcg gagaagccac caagtatggt cgggattacc 120  
 ctattctttt ttgtattggt cctaacaatt tgtaagacg atgtgtaaca aagggagaac 180  
 aaactagcat attttcacat tgccacaact caccatatgg aggcaacttc aacggagaaa 240  
 gaacaactgc aaagatcttt caagccagat tctattagcc taaattcttc aaagatgctc 300  
 ataaccatgc acgatcatgc gacaactggt aacgaactga caacatatct agacgacatg 360  
 aaatgccatt acagaacatg cacgagat 388

<210> 13494  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 13494  
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 gaggttggat caaatggaga acagagatca taatgattaa gaaaggcgga gaagagggaa 120  
 tgatggtggt cctagacaaa accgaattga tggattataa ctcaacattc ctccctttaa 180  
 aggaaagaat gatccggagg cctacttggg gtgggagatg aaaatagagc atgttttctc 240  
 atgcaacaac tatgaggagg accaaaaggt gaagcttgcc gccacagagt tttccgacta 300  
 tgctcttggt tgggtgaaca agctacaaaa atagagagca agaaatgaag agccaatggt 360  
 tgatacatgg gcgaagatga aaaggatcat g 391

<210> 13495  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13495

tcatccgcaa actgaagcat gtatactggg acctattct ttctaccaa aaagctgtga 60

aagaagtttg tagagactgc ttccctcadc aaacctgata acccttcagc agccaaaaca 120  
aataaaaaag gggccaaagg atccccctgc ctcannacct cttgaggctt aaactcctca 180  
gttgactac catttacaag gatggatatt gaagctgaag aaaggcagcc tttaacccaa 240  
ccaatccacc tttcatggaa ccccatcttc ctcaacatat agaaaataaa tngccaggac 300  
acagagtcac aagctntctc anagtccact ntaagcacta aacacgaatt cttttgcctc 360  
tagcctcttc acaacctcac ttcaatcaga actcatgtac 400

<210> 13496  
<211> 451  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13496

agcttaccac cataggaggc catggataag agcttggagg aagaaggaga tgaatgaagg 60  
gagaggaaga gaagagcaca aaattttgtg ttctaaaaga gctctatctg aagtttcatt 120  
tttaaagat gaaaattgaa aaaatgcaca cacatggcct ctatttatag cctaagtgtc 180  
acacaaaatt agagggaat ttgaatntct attcaaattt cacttgaatt tgaaattgaa 240  
tttgtggagc caaaatttca ctaattatga ttagtgaatt ttagctatgg ttaagccac 300  
taatccaaga tcaagtccaa gattctccac taagtgtgct taggtgtcat gaggcattga 360  
aagatgaagg acatgcacaa agtataacta tatgatgtgg caatgggggtg tagcaaacaa 420  
atgctcacct cccnctctaa aatttaattg g 451

<210> 13497  
<211> 321  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13497

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ttggcttgtc tagcatagct tttattnttc ctctcaattt gatctttgac tctctcatga 120  
agcttcttca catagtccgc ctttgettga ccttctttat gcttaaaaac ataaacatta 180  
tgcataggca aaagatcaag aggagttagt ggggttaaac cataaacaac ttcaaaagga 240

gaacaattag tgggtgctatg aacaactcta ttgtaagcaa attcaacatg gggtaaacia 300  
gcttccaag tttttaagtt c 321

<210> 13498  
<211> 336  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13498

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aaaaaggctn tatatggctc aaagcaatat agatactact cttttcataa agagaaaatt 120  
acatgatatt ttattggttc aaatttatgt tgatgatatt atttttggat ctactaatga 180  
attattgtgc atggaattct ctcacatgat gcaaagtga tttgaaatgt taatgatggg 240  
agaacttaat ttctttcttg gattacaaat taaacaaacc aagactngga attttgtcaa 300  
tcaatccaag tactgcaaag agttaattca catatt 336

<210> 13499  
<211> 363  
<212> DNA  
<213> Glycine max  
  
<400> 13499

agcttatcac cacactcctt caaaccactg gcctcaccac caacaacttc agcttcgtga 60  
atctcacttg cgactcccaa tttggcgta tctcgatcct cttccccgca ccgtactctc 120  
cctctaattgc caccatcctc ttcttcataa agaagcgtga tggcactaga aaaccactga 180  
gcgccactac gctgaacttt ctctcatcg gtagggacac atcgttggtg gcgctaagct 240  
ggttcttctg actcttcatg aaccacccca tcgtggaaga aaagatcctc gcagagctaa 300  
cgttggtgct tacttccact catggcggcg accgacgaca ctggatggag gaggcaatgg 360  
act 363

<210> 13500  
<211> 437  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 13500

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aggttctcca tcatctgtta ggatcacata ctcattagga gaatacctct tagaagggtg 120  
tctctcccta ttggaccccc tgagttgaag ttgagatggg ttggtagcat caccaagatt 180  
ttcatcttgt gacatgtcat gtcctcctc ctcatcatca gaagaaacat ctacctgctc 240  
tctaggttgt tggacaccaa catcattctg agcatccata ttcaaattct gaataggcgg 300  
ctgaactggg tgaaaatcag ccacatcgtt gtcttccttg ggtgtagact tctccacctt 360  
accattgtct tcaatgggtt gggtttccat gaatttcaca tcacgaatta taacaagctt 420  
cttctcaaca ggatcat 437

<210> 13501

<211> 397

<212> DNA

<213> Glycine max

<400> 13501

caccaccatt accaaagcca gacgctcaat accatcaaaa tcagcatggt caatagccaa 60  
tattcccgca tcagcaaaga gtcctctgg aaaattgtaa atcaactgtc tgttaacaaa 120  
acagttgata ccatgacctt ttatctcttg cacttttctc ctcatcttct ctttctctgc 180  
tgtttcaatt tgagcaactc tagccataga atcaacacga acacgtgcac catatatctt 240  
cactttgtct gtgtccatgg cagtgtttgc caccagtatc tttgcattct ctatccgctt 300  
gtgttgtcca ataccaattt tcttgtcaag aatgaatctg atcaaataat taaaacagaa 360  
agaaagctta ctttctaccc agagtaataa aatgata 397

<210> 13502

<211> 328

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13502

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tcatcaagac catcatcac atacattcac aaacatcgct atattgtcgt aacaacccat 120  
tgtcttttga accatggatc cctnccaactc aagttttggg gttatgcatt gtaaatcgca 180



acgtgtctca tcaatcggat gccctctctc acactaaacg aaaagtctcc attagaagtc 240  
 ttgtttcatc gtccatcaaa ttatagtaaa ctaaaagctt ttgggttatct ttggtttcct 300  
 tgggtcactc catatacaac taacaaac 328

<210> 13503  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13503

gctgttagtg tgtgtntaaa tgtctattat attataaaaa ttatgtaata atgtttcttt 60  
 gaagaaaatt ttatcagtga aaataaaata ttttgaatat gaattttgta gtattttttt 120  
 aattagatta gggttggtgtt aatgatttat tagtgtgtta ataattcatg aacgtttcaa 180  
 ctttcattta aaaaaattag tagatcatat ttatttgaag aaagtatttt gagtatgaaa 240  
 tttattttta tatgaagttg tagtattttt ttaattagat taggttcatt tttttgtgtt 300  
 aaaaattgat aagcgttcaa gttgaaagtg ttatttgatg atgttttggt gtttcttgta 360  
 tcatatttaa tttaatatat nntgtagtaa tttgtaatta cctattttca ttttgaagtt 420  
 attattggtg agaattaata tttt 444

<210> 13504  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13504

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 taattcaaatt caagtttatt ataaatacta aacttccatt aaaagacaca acaaacggcg 120  
 acggataaat acaggggtatt ttactaatct atataaatta gaaactggcc agtggatttt 180  
 ttacaggact tctaattatg gttgatgaaa agataattta ttttaaattt aattaaaatg 240  
 tattgatagt ataatttttt ttacaatgaa atctaattat gaattatcat atgataaaat 300  
 tattaatttt atattctctgg ttgcttagtg tggaggtaaa ataaataatc tgtcaatggt 360  
 tgtcattgag ataactaaag tacgaattta ttaacgggca attaatgatac tatataaata 420

ctccggtatc tc

432

<210> 13505  
<211> 448  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13505

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acacaaatta gaagatttat tngtttgatc gcataatgac taacattcat cacttaattg 120  
tgcattagag catatttatg cagtagaatg cttctattga tggtaattga agaatttcag 180  
agtttgactn tattttattct tcataggatt cgatagattc tagaaaaatg tctatgcaaa 240  
atagatctca gacacaaaat attaaataaa atcttaaagc tcatttttaa tggatatatta 300  
gaatatgatt tgattttgct atcgtctaaa acattataca cagatttcac caatatatgt 360  
tatgatacac ataagaccga acttttaaca tttatatttg tttatatcta atcacaataa 420  
ttagagatct ttaattatct taagatac 448

<210> 13506  
<211> 308  
<212> DNA  
<213> Glycine max  
  
<400> 13506

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aactaccttc atcactgaag acgccaactt ctgttatagg gtcatgcctt tcggactcaa 120  
aatgatggag ctacatacta gaggctcatg gaccaggtct ttaaacaatca gataggccag 180  
aacgttaagg tatatgtgga cgacatgggt atcaagtctt atagtgtggc ccaacatgta 240  
gcagacttga aggaagtatt tggagaaacc tcgaaatatg acatatgcct caaccctgaa 300  
catgcacc 308

<210> 13507  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13507

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tttttattga aaattctgtt gcttacctga attttggtat ataggggtct atgcaggcga 120  
tccttcaaaa ttaagtatga aagcagcatt cgggaaagtt tggaagctgg aaaaaaatgg 180  
tggtagcatt attggtggaa ctttcaaagc aatacaagag agaaatggag cttcaaaacc 240  
acctcgagat ccgtaataat atatttgctc tggatttttg ccataattta ttgagtattt 300  
cactaattca attaatacatg taggcgtctg ccaaaaccaa aaggtcagac tgttggatct 360  
ttccggaagg gacttaccat gttgcctgat gcaatttctg gcaggtacta catgtngtct 420  
aatac 425

<210> 13508  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13508

tctacaaagc atacggctnt ctggatgtag atgatgttat ctatacagat ggatcttata 60  
tatctatata tctatagata gatatataga tatagatata tagatataga tcatacaatg 120  
aagtaccgca cgagtgggta tataggaatc caaatctgcc gaatcactca tgttatgatc 180  
ttctacatcc taggtcttcc cgttccttca tctggcttat gttcttcatg tagcattcag 240  
actgaatgac tctatgaaat tacgtcgcta cttccacatg gtacgggtaa cgtatgagac 300  
atctctatatt ttcccgggg gaatccttag aattaccaca gcttagcttt caattcgcct 360  
ctgaccatca aatgaaatgt gaataaccgc tctccctc ttt 403

<210> 13509  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13509

agcttctgat aaaaaccgag cagttctaat aagatttgta atatgaatac ccttacgctt 60  
tgcagatata taaggtgaca ttttaggatt ccattttcta gtaccgtggc caaaatgaac 120

tectgcttcc atcatctctt ccaagattat gttccaatat ctttttgtca tttatattta 180  
 tccccacact tttctttcat ttcaaaatcg aaattctata aattttttga aatgaaagaa 240  
 agagaccggg tatactgaaa tagaaataag tgttccaaag gaaccttctc ttctaccgaa 300  
 gaatggcctt tgataaatga tcggggccatt ttttctatct aatatttaat atgattattc 360  
 tctctattat ctttctttta ttatacaaaa taaaatgacc gaagatgaat ccgctcttaa 420  
 gaatcattat tttanggaat attaaatact a 451

<210> 13510  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13510

ctttattgaa cgcataanat ataatttga ttatgtatgg gattaatctt ctttgtcatc 60  
 tgagaagatc aaacgtcgat agttgatcag aaatatatca taaaagataa aagaactaag 120  
 tgtatatgta aatataatat atagaagttc acacatatat aaactgaagc aaaaatatgt 180  
 taatgcatca tataaaatat aggcaagtgt acatacgaat agatcttttg tcttgtgtag 240  
 ataggcacia tagtattaat gaatcgataa ttgcaaaatc aggttatgaa agatctgaca 300  
 aaaaacagag ttttaaatat atatgcgaac ataagatata gaaact 346

<210> 13511  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <400> 13511

gcttgctaac atttgtgtta ttacgaactt tccttatctt tatatggaaa ctgctcatga 60  
 acatcttgag aagttggtat ctgatccact ggaccagacc catcaatctg atgaagcaac 120  
 tattttctcaa cttcagggtg tgcagcacc acatagacaa cagaacacaa agtaaaggac 180  
 gaggttgctg agacatcacc gaagcgctcg caagtaacac cacttatgga ctcatgtgcg 240  
 aacacattct ctgacaca 258

<210> 13512

<211> 505  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13512

ctttaatgcg gtttcagttc anatgaacta caaagattag ccattattta ggcattgtaac 60  
 atgatataat attccttaggt gggttttcctt ttgactagtg tgactagggg catcaagaag 120  
 attgttttaa ctatattatg ggcttaagag gtttatttat ctaacttatc ttcaccttca 180  
 acacaacaca aacatattag caacatcaat tnttattcct gagtgtgtgt aattntaagg 240  
 tgtatactga tgcgagacct gagaccagaa aggcataatg tagatgggag tttgatgtca 300  
 tacccttaca atgaaattgc tgataaataa ataagttggc agatgtttgt caaaacagcc 360  
 acaaaagggtg gcacatgccca ccttgctact gacaaatatt caaatatata tgtaacatgg 420  
 tgaggaagat gctggatggt gaatctctct ccattgtagt ggaggtgtcg catcactatt 480  
 caaccattca ttcattcatt cacca 505

<210> 13513  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13513

tcatgtctgaa gcatgtatgg canaacttca ttagtgttgt tcaacacata caagtgtgct 60  
 tgtaacanat cttctacact tggagtgtata acatgcagtc ctcttgaacc cttaccaccc 120  
 actctatcgt catggaaaga ctcaggaagg ccagcaggtt ttgccttttc aatgtagtat 180  
 aaacaaaatt caatggcttc ttttgcaatg tacctttcaa caatagatgc ttccggacga 240  
 tgtagattct tcgtataccc ttttaagatc ttcattgtatc gctcaaccgg gtacatccag 300  
 cgagataaaa caagaccaca acatttgatt tctctaacta ggtgaacaat taagtgaacc 360  
 atgatgtcaa agaaagcagg aggaaaatac atccncaact gacacagtat aattgcagtc 420  
 tcattntcca gggtcatcaaa cttgacagga tcaaggactn tgctacatat 470

<210> 13514  
 <211> 432  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13514

agcttcttag tttcagatga tgcagatggg tttgtatcta cctcatgcac tcctctaatag 60  
actatggcat catttttggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120  
tttatggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240  
tgatgggtgn ggcaactgac acatagtttc ttaaattctt cccagtactc atacaggctc 300  
tctccactga gttgtctaata acctgagata tccttcctga tggctgtggt cctggaagca 360  
gggaaaattt tttctaagaa tactctctta aggtcatccc agctcgtgat ggaccttgga 420  
gcaagggaat ac 432

<210> 13515

<211> 372

<212> DNA

<213> Glycine max

<400> 13515

agcttcaacc tagaggagac gaaccattcc aagtgttga gaagatcaac gacaatgcct 60  
acaagattga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120  
ctctttttga tgcagatgga ggagccttgg atttgaggac aaatcctttt caaggaggga 180  
gtgatgaaga cataaccaag ggcaaggacc atgaagcact tgaagggtccc atgaccagag 240  
gcagacttaa acaagcccaa cacatcatag agacaaggct ggtcatttgt atagctgtca 300  
ttgatgatga ttgaaggccc aagtggagaa agatgaaggc ccagaggcag aggccactacc 360  
aagactacta at 372

<210> 13516

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13516

agctntgagc anattcaaac gacaatatct nctgtttcgg atgtgcgagt ggggtcccgta 60

atatatctag acgctcgaga ttgagaactg aagctctgag aaaaatcata cgacaataaa 120  
tctttactcg gatgtgcatg tgagttccgt aatatatcga gacgctcgca atggaaaaca 180  
gaatctctga tgagattcaa acgagaataa catttatctc ggatgttcga ttgtgacccg 240  
taatatatcg agaggctcga aattgaaaac tgaagctctg agaccatgaa acgacactag 300  
ttcttaactg ggatgtccga atgagacccg tagtatatcg agacgctcgt aattgaaaac 360  
agaagctctg agctatctca agcgacaata 390

<210> 13517  
<211> 473  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13517

agcttaggaa gtatcaattg aggttaaacc ccgctaagtg caccttcggn gtcaaatacag 60  
ggaaattgct aggtttcatc gtgagccaga aagggataga ggtgaacccc gtatcgagag 120  
gcaggtctga gggtttcctg gacgtttgaa ttatattgcc agattcatat cacagctcac 180  
cgctatttgt gagccgttgt tcaaactctt acataaaaac caaacgtcc gctgaaacga 240  
tgattgtcaa gaggcattcg gaaggatcaa aaagtgtctc ataaaccctc tcgtgcttat 300  
gccgccggtg cccggaaggc ctctcatctt gtatatgaac gatttggacg agtcgatggg 360  
atgtatgctg gagcaacatg acgagtcagg gaggagagag cgcgctgtct actacttgag 420  
taagaagttc acggcctgtg aatgaatta ctcccagctc gaaagaaacg tgt 473

<210> 13518  
<211> 415  
<212> DNA  
<213> Glycine max,  
<223> unsure at all n locations  
<400> 13518

tgatggaggg agttgagatg atagaccttg gttaaatac cttctttctt ggcattgaga 60  
tcaaacaagg agaacatgaa gtcttcattt gtcaaaagaa gtatgccaac gagattttaa 120  
agaagtttaa acttgaagaa tgcaaagaaa tgagcactcc aatgaatcaa aaggaaaaac 180  
tntgcaagga agatggaacg aagaagatag atcaagcata ttttagaagc atgactgggt 240

atttaatgta tcttacaaca actcgacctg atattttaaa tgttgtaagc attttatctc 300  
aatttatgaa ttgtgcaagt gaaatgcac tcaaggctgc aaaaagggtg ataagatatg 360  
tcaaaggcac ttagcaattt ggcacaaagt tcaagagaac tgaagagttc aagct 415

<210> 13519  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13519

gatatttaag atggatgac atgacagtct ctagagtctt agaaagggtg tattaaatag 60  
gaagggaatt ccaattgaag tagcaaaaag tttggccaag aaatttaagt taaaaagtct 120  
ttttcaacaa atttactctc tggtaatcga ttaccagtgg ccaaaactga tttacaacaa 180  
ctattaaaat ttgaattcaa aatttgcact gtgtaatcga ttacacatat atggtaatcg 240  
attaccagca gtttctgaac gttttaattc aaattntaaa gcttgtaatc gattacacaa 300  
atactgtaat cgattaccag agcagatctt cagaaaatat tctcaatagt cacatctttn 360  
tatttggttc ttgaatggct atcacaggcc tatatatatg tgacttgag 409

<210> 13520  
<211> 502  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13520

ttgctcanag cttctgttct gaatttcgag catctccata tactacggga aacaatcgga 60  
catccgagta aaaagggttt gttgtttgaa ttttctaaga ggttatgatt tcaattttga 120  
gcgtctcgat atattacgag actcaatcag gcatccgagt aaaaagttat tgctcgtaga 180  
tttttcttag agcttctatt tccgattatg agcgtctcga tatattacga gattcattcg 240  
gacatccgag taaaaagtta ttgtcgtttg attntgctca aagcttctgt tatgaatttc 300  
gagtgtctcg atatactacg ggacacaatc ggacatccga gtaaaaagtt attgacattn 360  
gaagttgctc antagcattc gtgtcaatta cgagcgtcta gatatattan aggattcatt 420  
cggacatccg agtaaaaagt tattatctgt ttatttngct cagagcttct ggtttcaatt 480



<210> 13521  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13521

agctttanaa gaatggctaa gaatttgta aaacataagc acttagacta tgaaggaaag 60  
 ctggagttgc tgcacatgat gtccaacgtt atgtcaaaga ataagatcgg gctgcacaat 120  
 gcacaaggca agataaagtg tcaaataag aattgaagct gcaggattca cgatgccgga 180  
 tacaatgtcc aggacatcct gcctgaaaat actggaattg ctaaaagcat tgaagctgca 240  
 ggatccacga tgtcggatac aatgtccagg acatcctgcc cgaaaatact ggagttgcta 300  
 aaagcattga agttgcagga tccacgatgt cggatacga gtccaggaca tcttgcccga 360  
 aaatactgga catataaatc tggtatatct ttaacagatt attgtgcagn tagcaagaga 420  
 ttagatgatc tatctttagg aacgaattan aagataatta aagttcgaat taaaactag 480  
 aa 482

<210> 13522  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13522

ttacggacac tataaaacta agctggtatg catgattgga tgtttatgat cctcanagct 60  
 tggatgttgn gaaacataaa ctctctcttc aacgtatcca tttaggaaaag aacttttgac 120  
 atccatttgg tataacttga aaccataaac acaagcataa gcaagtagta atcttacggc 180  
 ctctagcctt gctattggtg cataggtttc accanagtct ataccctatc attggttata 240  
 gcccttggct actagccttg cctcattcct aagtatcana acatgttcat ccaattaatt 300  
 cttgaacacc catttagtgc caatgatgtt catgacntta gaataaggta ccaattccca 360  
 tacgtcaatt cttttaaatg gttcaactcc tcatgcatgg acattattca aaact 415

<210> 13523

<211> 437  
 <212> DNA  
 <213> Glycine max

<400> 13523

tgcttggttg gcgaaacaga cagccattgc aatttaatat ggcgattggg atgagtcata 60  
 tgcgaaactt tcgtcgtggc taacacacat gcaaaatcat tctcctggat catattttca 120  
 agtactacat gacgatttta tcgttgggaa tacggttagt cgcgaacacc gtcagtttca 180  
 tagagttttt tggactcttg ggcaatgtaa agaagcttcc aagtactgga agccaatcat 240  
 acaagttgac ggcacacatt tgtacggcaa ataccgtagg accctcttaa tggccacatc 300  
 acaagatgga aatggtggtg tccttcctct agcattcgcg gtggttgaag gtgagacggt 360  
 gacagcgtgg tcatgtgttt tggacacttg cgtgaccaca aacccttgca caggtacaac 420  
 cctggatgga ggaatca 437

<210> 13524  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13524

atcattagtc aaaactaaca ttcaaggacc catgatnaat tgggtaccaa aatcaaaaata 60  
 tgattatatg aatgaaggac tccttgaaga aaagttggtg cattgatagc ggttgctcca 120  
 aacatatgac gggagatgca tcaaagttta ttcatttttc tcaaaaaaaaa tagtggacat 180  
 gtgacctatg gagacaacaa caaaggtaaa attccttgag ttggaaaaat aggtacaaat 240  
 ccttctacct ccatagaaaa tgttttactt gttgatggcc ttaagcatag tttattaaat 300  
 gttcttcaat tatgtgataa aggccttttg gtatcttttg attctcataa ttgcttttga 360  
 tgagactaac tctnttatgc caagaaatgg tactactcta ttaattcatt ataaatggct 420  
 gaatgttntt cttctctc 438

<210> 13525  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 13525

agcttcaagc tagttntatc cacatagtgg atatcttccc aaagacaaac ttgggagttt 60  
actcaataat catccaaaaa cactttttcc aataatttag ttttctcatt gaatttcaat 120  
gcatttggtt atatgaatta ataaaggaga ataatgaaa taagaaaaaa attattgttt 180  
gatttgtaaa tgaaactgaa atgaaataaa tgtttctaata aagttttaat attgttttaa 240  
gcaaaagtgt gggcaacaaa aggatatact ttntagaata aaaaatacat tnttttaatt 300  
tgtcagtata tctttatgag catttanatt gcaatatttt gttctttaag gatatactaa 360  
ttatttctat taaaaaagga tatctaagnt atttaatgaa catacctctt ctttttcctt 420  
attcaactaa ataggaagaa gacaaaatta ctcttccttt tt 462

<210> 13526

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13526

ngaaggagtt tcatgcatca gggaacaatn tcactntata agtgggtccc aattggcttc 60  
ctaattntca gcttacctct ttggatgtga gatcgtggca gtaagggtgcc aattttccat 120  
catggattca gtcacaaaac aaacttcaag atgttggact gtctaacacg gngatttttag 180  
attctattcc catacggatg tgagaagcac tntctcaggt tttgtattta aacctctctt 240  
acaatcatat ccatggtgag cttgggacta cattaaagaa tccattatct atccatacta 300  
ttgatctaag ctcaaatac ttatgtggta aattatccta tctttcaagt gatgtgtttc 360  
ggttgatct ttcaagcaat tcattctctg aatccatgag attagaattt ctgaat 416

<210> 13527

<211> 481

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13527

gtaatcttga nattcaagac aacactctga tttctgaggt ttttgngaca aaaatgggtca 60  
ttgaccagtc cattttccat gacttaacta aattaaccag tgacggtgta ccatttgaag 120

gtacactgaa tgacgactag aaatttgatt tctctgccca tgatgccac cagttgggtt 180  
gcaccaacaa tgcggatatg accggacgtc ttcttaccgg gtcattggct tttgaaagcc 240  
gcatccttca ctatttaatt atgcgtattc tgcttccacg gtcttccaac cttgcccagg 300  
tttctgagga agatctaatt atcatgtggg ccttccatac agggcgtaa ctcgactggg 360  
cacacttagt cagatatcgc atgcataagg cattgcgatt aaatgctcca ctaccatata 420  
cacagcttgg tactctatnt cttcgtcatt ttgaaattct tcttgattct gaatcttata 480  
t 481

<210> 13528  
<211> 410  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13528

agcttaggct gagttctact taccaccac agactaacga ttagaccaag cgcactatca 60  
aatccttaga ggacctcttg agagcctgtg tcttagagca gcgngtagt tgggatgggt 120  
tcttaccctt gatagagttt acatataaca atagttttta ctccagtata ggtatggcac 180  
cttacgaggc gttgtatggt agaagatgta ngacacctct atgttgggta gatctagggt 240  
agagcattgc cttatgacct gaggtgggtc agcagaacac tgaanaggtc aagttgatcc 300  
aatagaggat gagagtagcc caaagtaggt agaagagcta ccatgtagga atagaaaggg 360  
accttgaatt gttgaggtga tcatgtattc ctgagagtca ctccatggac 410

<210> 13529  
<211> 450  
<212> DNA  
<213> Glycine max  
<400> 13529

agtcttgatg caacatttgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60  
ggtggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaaatga 120  
tggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180  
aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagaccatg ttttctcatg 240  
caacaactat gaggaggacc agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300

tcttgtgtgg tggaacaagc tacaaaagga gagagcaaga tatgaagagc caatggttga 360  
 tacatggacg gagatgaaaa gatcatgagg aagcgggatg tgccggctat gtactcaagg 420  
 gacttgaaat tcaagctcca aaaactaacc 450

<210> 13530  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<400> 13530

gctgatgaaa ctgatgcttg gtaacttggg acctaactgt ccttgaatca caaatctata 60  
 cctgatgcaa ggtttgtggg ttgtgctcct ctgctgacca ccatacagac ctttgcctt 120  
 ccatgcagca acctggagcg attgagcagc ctgaagctta tgctgcaaatt atttacaata 180  
 gacctcctca acctcagcag caaatcaac cacagcagat aaattatgac ctctccagca 240  
 acagatacaa ccttgatgg aggaatcacc ctaacctcag atgggtccag cctcagcaac 300  
 aacaacagca gcctgctcct tcttccaaa atgctgctgg cccaagcaga ccatacatc 360  
 ctccaccaat ccaacaacag caacaacccc agaaacaacc aacaggtgag gccctccac 420  
 aaaccttcct cgaagaactt gtgaggcaaa tgactatgca gaacatg 467

<210> 13531  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13531

agcttaatga ccctcaatct ttcaatgatt atatatccat ctcccttata ggggtgtgtct 60  
 ataaaatcgt ggctaaagtt ctggccaaga ggctggccct tgtgttacct catcttatag 120  
 atgaaagaca aacggatttt atgaagggga ggcacattct tcatgggtgtt ttgattgcc 180  
 atgaggttat agctgaggct aaggctagaa ataaaccttg catgggtcttc aaagaggatt 240  
 ttgaaaaggc gtatgattcg gtttcttgtg gtttcttga ctacatgttg atgaggatgg 300  
 gctnttgtga aagatggagg aaatggatta atggtttctt gtccactgca accatatcca 360  
 ttttaattaa tggaagtctg tttttggaga tgccactcaa cataatggta gaaccttata 420

atgtatttga g

<210> 13532  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 13532

actcaagctg aggaaactag atgccttggg taacctagta acccaactgg ccatgaataa 60  
 aaaatatgca cttgtcgcta gactctgtgg ttatgtctcc tctgccgacc accacacaga 120  
 cctttgccct tctgtgcaac aatctgaagc aattgaacag cctgaagctt atgctgcaaa 180  
 catctacaat agacctcctt aacctcaaca gcaaaatcag ccattacaga acaattatga 240  
 cctctccagc aacaggtaca atcccggtg gaggaatcat cccaacctta gatggtcgaa 300  
 tccttcacaa cagcagcaac aacaacaaca accttatttt cagaatgttg ctggcccaag 360  
 tagaccatac gttcttcac caatccagta gcaacaacaa caacagccct agaaacaaca 420  
 aaca 424

<210> 13533  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13533

ngcanaccga cttcaactcc aatggtttct aatctcaaac tcttggcaca aganagcctt 60  
 cctcatctaa tctcaaactc actacttttg gtgactcaaa ttaggcctct tgctcagatt 120  
 cttgaaaatc agtcattgga ttctcaatat tctttggccc ttctcttatt tcatggagat 180  
 caaagaagaa atctactata tgctgacct ccttcgagga agattacaag gctctcgcat 240  
 caatgatata tgaaacataa tggatacttt acctccttga agatctacat aacctcggcc 300  
 aatccggtgt ctttatactg ttgagtctat ggatcaatta gaacattcgt agtacgcctt 360  
 tacatccatc attgtctcac tctttccttt canagttgga catgtatgat atatatagct 420  
 cagcttgacg gaggggtgat ctgatgatac atanaatagt actaaaactc aattntaata 480  
 gatatgtcaa taatcaacaa ta 502

<210> 13534  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 13534

tatagatact caagcttcaa catcagacca cttccagtgt gctggaacta cttcacatgg 60  
 acttgatggg gcctatgcaa gttgaaagcc ttggaggaca gaggtatgcc tatgttggtg 120  
 tggatgattt ctccagattt acctgagtca actgtatcag agagaaatca gacacctttg 180  
 aagtgttcaa ggagttgagt ctaagacttc agagacataa agactgtgtc atctagagaa 240  
 tcatgagtga ccatggcata cagtttgaaa acagcaagtc tactgaattc tgcacatctg 300  
 aaggcatcac tcatgagttc tctcgagtca ttacaccaca acaatactgg ttagttgaaa 360  
 ggaacaacat gactgtgcga gatgctgcta gggtcatgct tcatgccaca gaacttcctt 420  
 at 422

<210> 13535  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13535

agcttgagcn attcaaacga cataactttt actctatggt cgattgagtt cagtaatata 60  
 tcgagatact agaanatgaa aacggaaact cgtagaaagt gcataccgca atcactttta 120  
 actcgatgt cggattgagt ctcgtaatat atcaagacgt tcgtaatgga caacagaagc 180  
 tcaatgaaaa ttctaacgat attaactctt tctcgaagg tacgattgag taccgtcata 240  
 tatcgagatg ctacaaattg agaatagaag ctctagcaa attcaaacga cgataacttt 300  
 ttacttggat gtccgattga acacggaat atatcgagac actcgcaaat gagatctgaa 360  
 gctctgagat aattcacaca acaataactg tatacacgga tgtccgattg agt 413

<210> 13536  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13536

aagttcctca gctgacttga gtagattgag acatattctt ccaccaaga cttgatatca 60  
 tcccatatct ctagcccatc agaagcataa ggatagtcct cgatcaaaag tcaaactcca 120  
 tggggagcag atggatcctt aacagcaact cctctgaatt aaaagcacc aaataacatt 180  
 gattagcata agagttatat caagcctgaa gccttttttc ttcttatgtc attgatgact 240  
 ttgtatatca tgcattcatg tgccactact ctgtcaaagc catgaactgt caaagccatc 300  
 atttatgatg aaacagtctt tgtctttcca aaatctgaaa tacgagccac ttgagcatct 360  
 gctaaacgat atttcgtgcc accaatagta acctcagatg atacagtctg cacatccaac 420  
 acaatataat ccaccaattg tctactagta agtaatgact tgaaggatgc tctncagtac 480  
 tgatcaacat ctatgaaac 499

<210> 13537  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 13537  
 gtttcacgaa tgtcatgtgc tcatgcaaca attgttaacc gtggctatac gagacatctt 60  
 gccaaacaaa gtcagggttca cgataactcg cccgtgcttt ttcttccatg ctatatgtag 120  
 caaagtgatt gatccagtaa tgtttgatga gttggaaaat gaggccgcaa ttatactgtg 180  
 ccagttggag atgtattttc cccctgcttt ctttgacatc atgattcact tgattgtgca 240  
 tctggtcaga gaaatcaaat gttgtgggtcc tatttatcta tgggtggatgt acccggttga 300  
 gcgatacatg aagatcttaa aagggtatac aaagaatcta tatcgtccgg aagcatctat 360  
 tgttgagagg tacattgcag aagaagccat tg 392

<210> 13538  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13538

taccctgatg aggatgtccc atatgttctt atnactggac taatccattt gcttccagag 60  
 tttcatggcc ttgcaggatga agaccacac aaacatctga aagaattcca tattgtttgc 120



tccacatga aacccccaga tgtccaggag gatcacatat ttttgaaggc ctttcctcat 180  
tctctatagg gagtggctaa ggactggcta tattactcta ctccatggtc catcacgagc 240  
tgggatgacc tcaagagagt attcttatat aaaaatttcc ctgcttccag gaccacgacc 300  
atcagaaagg atatttcagg tattagacaa ttcaatggag agagcctata tgaatactgg 360  
gagagattta aaaagttatg tgtcatttgc ccacaccacc aaatatcaga gcagcttctt 420  
ctgcaaatat tttatgaacg actcagt 447

<210> 13539  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13539

agcttaaacc aagtagntat ctggtttttt taattgnngn ngaagcctga aggcattccat 60  
tatccctaac tatcctggat gggttgcaaat actgtcctaa gtactacaga aacaagaaga 120  
ctgacagtgt aacgaagtac cacgtctctc aagagaaata acaagcgttg aagactaaac 180  
tataaataaa aacattatct cattgtacaa agcatacctt tcttggcctt ttggctaaga 240  
tcaagtgtag tatctgttct tatcagttta atatttgata tgtggaccat tgggtcacac 300  
gatattaaat taattttttt aggggggaggg tccattatag tagctggcta ctggggctct 360  
cacgt 365

<210> 13540  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13540

gcttgataac aaaatcagcc tctccatcc ttgtattatt gtatacatgt tgggcgagcg 60  
ttgtgttacc caccacctc atgccacaa tagaaattat tgatagctgc ttatagttgc 120  
cagtttcata tgtgagccaa ttaatgatca tttctttgcc atcatctctg acataaataa 180  
cactttcaac caccaaagaa gttgatggca ttttctgtga cacttgactg cttgatccta 240  
ctcttaacat cgggtacctn taatatacag cttttcaaag tgggcaatct ttccccagtc 300

ttgccttct ggtctctggc aacgctgttt gagcaatgga caaccgaaa ttccaagagt 360  
tcaaattgaa ttgggcacac cctcctctgg taagcattgg aggctgcggc agttttcaag 420  
cctcaattcc ttgagaga 438

<210> 13541  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13541

gacacccgaa cttcacaagc catctatata tatctttgaa tgaagaataa gtccaaacct 60  
atatagatga tcaacttgaa nagggagatg aaatctcacc agcactcacc aaagccatcg 120  
aagatttctca tgtatatatt ctaattttct cagagaacga tgcttctca aaatgggtgct 180  
tgggtgaact catcaagatt atggaatgca agaataaaaa aggacaaatg gtaataaccag 240  
ttttctacaa cgtagattca tcccatgtga ggaagcagac agggagctgt gagcaagcct 300  
ttgaaaaaca tgaggagaa cctatgtgca agaaatggaa agctgttctc actgaagcat 360  
tcaatttagc tgggtggaac tctcgaactt ataggtaaga taataaaatg gaatgagtga 420  
ttaaatttc tgaaagaaaa aatgagaaag acaat 455

<210> 13542  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13542

gcaagctnga gtgaactntg aataatatga aaacttttat ctttctctac gatctcactt 60  
ttaatgttgt gatatgcta cttatacgta actgtacatt ttatttctag taagcaatta 120  
tgtatttatc acttaggtag cttgattaga tattggcaaa tatgttatta atttcgtttg 180  
aactttgtag tctattcact gtaatcagtg ttatgtatgt tatatttcat gaaataatgt 240  
atgtatttta cttctagact ctgttgacat catttatttg gtatgggatt ttataataat 300  
attaaataat ggtgtctttt atgttcagat gtctgggtgag nttccatgtg ctacttctga 360  
tgctcaatct atgcaaaacta catctatagg tcaatccgaa aaggttcact cactttcata 420

tgctgatcca cagcaaccag gtatt

445

<210> 13543  
<211> 434  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13543

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cattctctga tatcggggcca ctgacatggg ctgcgngggg tccaagggtg aggacttccc 120  
cgtgggtggtt ctgtgcagag agcgaaaggc gttcctcaaa gccgcatcag agcaacgcta 180  
cgctctcgcc gctgcacacg tggcgtatct ccattcgctg agtgaaattg gcgacgccct 240  
tcacaagttc gccgaacaag acctcaccac caccaccggt tcctcctctc cggttctcac 300  
attaccctcg gaaacaaaaa gcatcaacaa taacaaactc tcctcctctt ccccttctat 360  
agcatctaata gaaaaaaaaa ctatngaaaa caaatgaat ggcttaattc actagtcagc 420  
ctatagttgt tcata 434

<210> 13544  
<211> 450  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13544

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agcaagacta accaacatac cttattgggt gacaaattct caagttggag tttatggaaa 120  
acctgcccct gaagatttta ctgctgatta tggacactgg aaacgtatag tgtccaagtc 180  
ttatcttaat gggataggaa ttaattgggt caatatgcgg aatgtcatgg atatgagatc 240  
agtctatgga gggtgagtga aatttggtgc ttcccatggt actctgaatt atattaaccg 300  
gccattntga catacttcac tttgtttttg ggctacaggt ttgctgctgc cttgaaggat 360  
atgaatattt gggtcatgaa tgtgggttca gtaaattccg cagacacact ttctcttatt 420  
tatgagcgag gtctcttttg catgtatcat 450

<210> 13545

<211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13545

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 acatgccaaa atacatgaaa atacaaaaaa attctatact acaaagacta ctcaaaatac 120  
 cctgaaatac aaggctaaaa ccctatacca gtagagtacc cttaacttgt acccttaatt 180  
 tgtaggggtac cctacaaacc taaaatggcc aaaatacaag gcccaaaaaga aggaaaacat 240  
 attctaatat ttacaaagtg gactcatact tagcctatgg gctcaaaatt taccctaaag 300  
 ctcatgagaa tcctagggcc ttctcctgca tctctagccc aatcttcttg gagtcttcta 360  
 tccaatgccc ttgggggggta ggattgcac acataacctc tatggagacn agatntggaa 420  
 ctttgcatat ctctctaaag cgtctaagtt ggtcgacatc tattatatta gactgattag 480  
 cat 483

<210> 13546  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 13546

actattatac tcagcttaac attatactct gagcgtctcg atatattacg ggactctatc 60  
 tgacatccga gtaaaaagtt atttggcggt gaattggctc ataggctcaa aattcaattt 120  
 cgagcgtctc gatataatttc gggactcaat cagacatccg agtaaagagt tattgtcggt 180  
 tgagttggct cacaggttca acattcaatt gcgagcgtcc cgatatatta cgtcactgaa 240  
 tcggacatcc gagtaaaaag ttatagtctg ttgaatttgc tctgagcttc aacattcaat 300  
 ttcgagcgtc tcgatataatt acgggactca atcagacatc cgagaaataa gttattgtcg 360  
 tttgaatcgt gtcataaggt caacacttca attcgagcgt ctcgatttat gactggactc 420  
 aatcagacat ccgag 435

<210> 13547  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13547

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atatatcgac acgctcgaaa ttgaatgttg aagctctaag cctattcaaa caacaataac 120  
gttttactcg gatgtccgat tcagtgacgt aatatatcgg gacgctcgaa attgaaagtg 180  
gaacctctga gccaaactcaa acgacaataa ctttttactt ggatgtctga tagagtgccg 240  
taatatatca agacgctcga aattgaaaga ggaacctctt t 281

<210> 13548  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13548

nngacattaa atntccctct aatattaaaa gccataaat aattaaatta gccaaaaatt 60  
aaaanaatta aattttttct taatatacat ttgattaaat attaaatttc cttttaataa 120  
ttgaaaacac ttaaaatatac tttaaatagat aaaatgctag tcaattattc taaaataaaa 180  
attattaaat taaattaatt ntaatcttat ccaatattat attttttact aaacactttt 240  
cattcattca tgaactaatc tactatccaa aattattaaa tagcattatt caatttaatc 300  
aattcattaa ttaatcatga tactataagt gagacaattt tttatttaaa aataattata 360  
attntttagg tatgacatta aataattaat aattaanaaa tgattcaaga ctaanaggat 420  
tcattacaat attcanaata gtccatcgaa tcttccatga cannatagtc aatgactaac 480  
tcaatatac 488

<210> 13549  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13549

ctccaacact taagatactt agctcgcact tccttagcca atcttatgtc ggctaaacgg 60  
acttcatact tgacttgatt gttcatcgtc ccaaacttga accttaggga ttgctctacg 120

attatttcat ttgggctttc tatgatgaca ccagtcctac tccctttttc attggatgaa 180  
 cccatctgca tacaaattcc accactcgga ttgtagctct gtagttgttg tcaattcgac 240  
 gatgaagtct gctaagcatt gagccttcgt tagatccctt ggtttgact tgatcccaaa 300  
 ctcgaacaac tagaccgact aacatatcat tcggtttgca agttctgggt tcatcatgac 360  
 tgtaagata tgggtggttg cttaactat gatttgatga cnttggagt atgggtcttag 420  
 tctcctagca actgtgacta 440

<210> 13550  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13550

tccttaatca cctcattaag gactagaaca ccatgtatga tgtgtctggt ttttatgaaa 60  
 gttgtctgcc tctcatcaat aagaccagat atcacttgct tcaatctatt tgctaataac 120  
 ttagctatca ccttgtagat acatccaatc aaggagatgg gtctgtagtc atcaaagac 180  
 tggggatggt taattntggg aatgagagct atgaaggaag cattactgcc tctagggaaa 240  
 ctgccatgta catggaattc atcaacaaat cttctgaagt cagctntcag catatccan 300  
 aattctntaa tgaatttgaa gttgaaacca tcaggtccag gacatttgct cccatcacia 360  
 ctccatactg cttctttgat ctccaaatct g 391

<210> 13551  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13551

ttttttcaat ttgtctcaa ttttcttca aagcactaga aatcttcttc ttttaacttc 60  
 tgctaataaa aaactgcaaa gatattaatn tctttattat ttcattaaan acaacaatga 120  
 agtaaagaac ttgcaatcat tcttagccaa aatngactat caaattaact caaatntcgt 180  
 agttatcatt gtgttataca gaaggaaaac acatcaaact caacgttaaa tattcaatn 240  
 tatagatata gaattctgtg ttgatcaaat ggtgatcgat cttccctttt gtttaactat 300

atgtataaaa aaataattta tatattaaat tatatgactc cctaactata atctacttnt 360  
 gaatgggaaa aaaatatgaa atactatcca ctaactcact accctttcat caa 413

<210> 13552  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13552

tataacttaac agaaatacat ataacattac ataataacca catatcgga gagctcgata 60  
 caatntatac aagttttata cacaaaagtt agtcattttc accgactaac acctgggctag 120  
 cccagaaaac tcctaattctt aataacagaa ttaggactct cccactcaag aatggcttct 180  
 atcttagagg gatctacaac tataccnct tgagatatca catgtcctag ganactaact 240  
 ntctctaacc aanatcaca ctttggacac ctataaataa agttgtcgtg tcctaaaggt 300  
 atgcagcata atcctcaagt gttcttcatg gtcctctcta gtctgggagt atactaaaat 360  
 atcatctatg aatactacca cacaacta 388

<210> 13553  
 <211> 216  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13553

aacaatattt cttggatact tctccccgan ataaaacatg tctgataatg agagatcaca 60  
 tcnggcatga caggggtttta cggattaact aagatcttag ttaagatctt ataagctatg 120  
 ctacacaagg agatatgtct gaattgacta acacacttat gctttgcaca cttaggaatt 180  
 agacagatgt cagtcattt taccgtacta acctca 216

<210> 13554  
 <211> 198  
 <212> DNA  
 <213> Glycine max

<400> 13554

gaacaatgga agctctcgag aaattcatat tgcataact tctcactcag aggaccatt 60

catgcggata atatatatag acgcttcaaa ttgaacaacg gaagctctcg agataactcag 120  
atggtcatta cttttcatct ggaggtccta ttcaagcgca tcatatatag agacgcttcg 180  
aatagtcaac ggaagctc 198

<210> 13555  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 13555

aatcatgagt caacacataa agaactttat ctttacacgg tgcataaatc cttatggcaa 60  
ctctcatgta gtcaatgacg acaaagaaag ttgcatacta tggaatgaat ctggtgctat 120  
gaagagcagt accattacag attgctctca ttccatgttc tgtatcacca aatgtaacat 180  
tgcgctcttc aatagtattc ttttggtgat ctccatatga tttcaacaag gtcatgaggg 240  
aagaggcaag atctacaccg ccaactgagta gaccaagaag aaccttaaga cgcgattca 300  
gattttgttg agacagatct cttgtaacat tagcagggtt ttctggagtg tat 353

<210> 13556  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 13556

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acataaataa ctttagctct acacggtgca taaatcctta tggcaactct catgtagtca 120  
atgacgacaa agaatgttgc atactatgga atgaatctgg tgctatgaag agcaatacca 180  
ttacagattg ctctcattcc atgttctcta acaccaaadc taacattgcg ctcttcaata 240  
gtattctttt ggggatctcc atatgatttc aacaaggcca tgagggaaga ggcaagatct 300  
acaccgccac tgagtagacc aagaagaacc ttaagagggtg catttagatt ctgttgagac 360  
agatttcttg taacattagc agggttttct ggagtgtatg tcggaagt 408

<210> 13557  
<211> 314  
<212> DNA  
<213> Glycine max



<400> 13557

cgacaatatac gttttactca gaagtctgat tgagaccggt tatatatcga gacgatcgaa 60  
attgaattct gaagctctga gctaattcaa acgacaataa ctttttttct cggatgtctg 120  
attaagtacc gtaatacatc tagacgctcg aaattgaatg atgaagctct cagcaaattc 180  
aaacgacaat aactgtttta ctcatatgtc tgattgaatc ccgtaatata tcgagacgat 240  
cgaaactgaa ttctgaagct ctgagctaata tcacacgaca ataccgttat gctcggatgt 300  
ctgattgagt tccg 314

<210> 13558

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13558

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gaaanaagtt attatcgttt gaaaatcctc agagcttcgg tattcaattt cgagcgtctc 120  
gatatattac gggactcaat cagacatccg tgtaaaaagt tattgtcgtt tgaattagct 180  
ctgaggttca gaattcaatt tcgagcgtct caatagatta cgggactcaa tcagacatcc 240  
gagcaaaaag ttatttgccg ttgaattagc tcagagcttc agaattcaat ttogatcgtc 300  
tcaatatatt acaggactca atcagacatc tgagtaaaaa cg 342

<210> 13559

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13559

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gaagcttggtg tttttctcaa atataggaca tgcgatgatgc cttttccac tgtatccact 120  
taaatttcca tatgctagaa aatcattaat agtacaaaac accattgtgc gtaacctgaa 180  
tgtctactgc acatttgcat cccacacatc tacctcttct tcccacaatt gtttcaagtc 240  
ttcgattaat ggcgtaagat acacatcaat atcattccct ggctgccttg gacccgcgat 300

catcatacac aggataatgt atntacgcan aatgcacaac catggnggaa gggttgtaa 360  
catcagtaaa acaggccagg aactgtgggt gctgttaagc taccataagg attcattcca 420  
tcagaagcaa g 431

<210> 13560  
<211> 482  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13560

gcatatggat cttnttgggtc cttctagaac tatgagaatt ggtttaaatt attatgctct 60  
tgtcatagta gatgattatt ctagggtttac atggactcta tttcttgctc acaaaagaga 120  
tgcatttcat gctttttaaga aacttgccaa aatcattcaa aataagaaaa accttaacat 180  
tgcattccatt agaagtgatc atggagggga atttgagaat aaaaactttg aattatttag 240  
tgatgaaaat gggatagaac ataatttttc tgcacctaga acccctcaac aaaatagagt 300  
agttgagagg aaaaatagat cattagaaga attagccaga atcatgctta atgatacaaa 360  
tattcttaaa tatttttggga cagaggctat taatattgca tggtatataa tgaatagagc 420  
attaattaga acctatttaa agaanaacacc atatgaacta taagagggga gaaaaccaa 480  
ta 482

<210> 13561  
<211> 505  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13561

gcttgaagat gaacttcact agcacaatgc atgaactctt gaaagtatac ttactgcana 60  
caaaatgtca ggtctgngtg cagtaagata tattaagcaa ccaatcaagc ttctgtaatg 120  
catttcgtca actttatcag ctccatcatc cttgctaaat ttctcctttt agttcattgg 180  
agatgtagtg cttttgcagt cctccatn gaaacttctt gagtatttcc cttacgtact 240  
tcttttgggtg aatgaggatt ccatcatgat cttngttcac ctccattccc aanaagaaac 300  
tcatcaagcc aagaattgtc atttcaaagc ctntaaacat ttcagcttta aactccttta 360

tgagtttctc atcacttcct ggcacaagta aatcatcaac atagatagca ataatgatnt 420  
aaattgcatc taccaaattc acatatatgg cagcctcact tggactttng acaaatccaa 480  
gatcttgaag atgatcatct atcct 505

<210> 13562  
<211> 508  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13562

atctaagcca ccgcggctgc agcttcactg attacacggt ccaataattc taatgggtga 60  
atctgttaca agatattggt aatcgattac cagtgtgttt gaacgttgaa atcanattca 120  
attgtgaaga gtcacatcct ttcacaaaat gctntgtgta attgttacia gaatttgata 180  
atcaattacc agtgacanag tttggacaaa aatcanaaga tgtaactctt ccaatgggtt 240  
ntcagttttt ttaaagggtta taactcttct aatgggttatt ttgaccagac ttgaagagtc 300  
tataaaagca agaccttgac ttgcattnta atattcatta caatctttga caacctttac 360  
aaaanannat ttcacatacc tttttacaac cttingaatct cntngaactt cttcttcttc 420  
ttcctttgcc aaaagctntc taaaaagttt ttgggtntca aacctagana acaaaaagtg 480  
tgtattcatc tttntcattc tcttctcc 508

<210> 13563  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13563

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nttgaatntg ctcagagctt ctattttcaa ttacgagcgt ctcgacatat tatgggactc 120  
aatcggacat ccgtgtaaaa agtaatcatc gtttgatttt tctaatagct tctgttctta 180  
attccgagcg tctcgatata ttacgggaca caatcggaca tncgattcaa aagttattgt 240  
cgtttgaatt tgctcagagc ttctgtntc aattacgagc gtctcgatat attatgggac 300  
tctatcggac acccgangaa naagtatcgt catttgattt tc 342

<210> 13564  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13564

agctggggat gcatttgtga gttgtttgta catatttatt ataggctntg tgttccattt 60  
 cagtatgttt gtacatatat tacccttatt gtcttacgaa gtagactctt acgagtctac 120  
 gagtcgactc tacgaagctg ttacgagtct gcgtaaactc tcgatattga taaccttgca 180  
 atatatatgt gttntaaaaa tagttgagat tataatacac ataatacata tgcttggtat 240  
 tcacatgaga ttctaattgt aatatacatg ttacaagagt gcatcagatg tatgacttaa 300  
 attataactc atgttaataa tatcatatta tgcagttag tttggaaagg tatcttcaat 360  
 gacaactcta gttactatat aaatatttac ttacaatatt gtgcttatat aattgagtcc 420  
 attagatttg ctntctacat tgtcttatat attcgaagtg gttactctta t 471

<210> 13565  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13565

cttcttattt ccagaaggaa attctatcaa tagacctcca atctttaatg gagaggggta 60  
 ccactactgg aaaacccgaa tgcaaatttt tattgaggca atagacttaa gtatttgagg 120  
 agccatagaa atagggcctt atataccac cacaatagaa agaattacaa tagatgcaag 180  
 cacatcaagt gaaagcataa caatagaaaa acctagagat agatggtctg aagaggatag 240  
 aagacgagta caatacaatt tataagccaa aaacataata acatctgccc tngaatgta 300  
 tgaatattac agggtttcaa attgtaagag tgctaaggaa atgtgggaca ctctacaatt 360  
 aacacatgaa ggaactacaa atgttaaaag atctatngat aacacactaa ctcatgagta 420  
 tgaactggtt angatgaatg caaatg 446

<210> 13566  
 <211> 422  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13566

caaggcctga tcttaacact gctctatttg tgctgtcaca gttccacag acacaccttg 60  
ctgaggcaag aatngcattc attgattcaa gtactagtag gagtgtgagc tatggtgaag 120  
ctaaaaggtc tatntactcc cttgcatcag ctntgttcca tggacttgag attaggaaaag 180  
gtgaatgttg tattgtattg tcaccaaact caaccttgta ctgagccata tgcctagctg 240  
ttttatcagt tggagcagtt cttaccactg ccaaccccat caacactgca acagaaaatg 300  
cgaagcangt gcatgattcg ggtgctaaac tagccatctc agcacctgag gagctacaca 360  
aatnggtccc aactgggggtt cctataattc tcaacttctcg tccttctgat ggcaacatgt 420  
ta 422

<210> 13567

<211> 457

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13567

gcctaaggct gttcaccatg ttgctcatgt tgctccnct atatttaaca atttccacct 60  
caagaccctt agttntatta aatcttgata tattnggtct aaccaaaacc ctcttattta 120  
gtgggttcagg ggtaaaagggt atgggtctagt tgggtggac gactactcta gatgaacatg 180  
gattatTTTT cttaccacaca aaaatgagta ttntagagtc gtctttataa ttacaaaag 240  
aattcaaagt gaaaaaggag tatacattac ttcaattaga agtgatcatg gtggacaatt 300  
tgaaaatgaa aattttcttc tattatgtga agaanatggc attctttgca atttctcaac 360  
acctagcaca cccaacaga atgaggtagt tgagagaaag aatagatcat tgtacgaaat 420  
ggaaggacca tgcttagtga taatttacac ctaaaca 457

<210> 13568

<211> 325

<212> DNA

<213> Glycine max

<400> 13568

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aatagaacaa cggaagcact cgagatatc aaatggcat aacttttcac acggaagtcc 120  
gattgatgcg cataatatat cgagaagctc gaaattgaac aacggaagct ctcgagaaac 180  
tcgaatggcc atcacttatt acacggaagt cggactcagg cgcgataaat atctagacag 240  
tcgaaattga acacggacgc tctcgagaga ttcaatggc gtacttatca cacggatgtc 300  
aacttaagcg caaatatatt gagac 325

<210> 13569  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13569

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ttactttggc ctaacaggaa ctccaatatt attacagctt ctaatgttat gattggtttg 120  
gccacacctt ccacatgtaa actcagccaa tttctctttt agcttatgtc ctgtgacatt 180  
gtcctcatct acagatctcc ttctatTTTT ctttggcctt tctctctgga cccttctatg 240  
tggtggaaca ggggtgtgtat actgtgtctg ggcccaatat tgtgggcctt ggactgggtc 300  
aataaaatgt tggatgtctt tattataaac ttctattgac agncactcat gacacatgtn 360  
ctcaggcttc ccttctttgt gagttatagt tgcaatggca tgtcggcatg gcatccctac 420  
atcatagttg tataatcagc acacatg 447

<210> 13570  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13570

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tcttntcct tgatcaagta taaccacatc attctgttgt gctcatctac aaatgatgtg 120  
aagtacttgt tcccacctag tgatgggtacc tcaaaaggac cacacacatc tgaattgcac 180  
aacaccaagt accactagaa agcttctcat tggggcaaatt gggaaactta aaggaacttt 240

cttggttgct tgccaatgag acacacatca cacaccttct ntgctacatt taattgtggc 300  
 agacctataa ccatattatt aattactaac atattcacia ctttgatatt ttagtgacca 360  
 aacctgagat gccaaagcca gctcaatngg ntaatctcta tagtcattaa acactgttac 420  
 tttgatgcct taatgntggc ttgaaagggt atatttcttg agagtggaga tc 472

<210> 13571  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13571

agcttctata gaaggttcgt tctaatntc tctacatttg catcacctct caatgagcta 60  
 gtgaagaaga atgtggcatt tacctgnggt gaaaaacaag agcaagcctt tgctntgctc 120  
 anagaanagc ttactaaggc acctgttcta gctcttcttg actnttctaa aacttttgag 180  
 ctagactgtg atgcctctgg agtgggaggt ggagctgttt tgttacaagg tgggcaccct 240  
 attgcttatt ttagtgaaaa acttcatggt gccaccctta actacccac ctatgataaa 300  
 gagctttatg ccttaataag agcactccga acttggaac attaccttng ttccaagga 360  
 attgccattc atagtgatca tcaatcactt aagttcatta gagggcaaag cangttatac 420  
 aaaaggcatg canaatgggt agagtaccta gagcaatttc ccatatgtat canatacaaa 480  
 aagg 484

<210> 13572  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13572

gacgtncctg attaattaat tattgtatta tctagtgtta tactaactaa naaaaactta 60  
 taaaatttcg tataagtaat gtacaaatcc aaaaataatt gataaacaaa atcatattga 120  
 attcaagtcg ttaaagcaca aagtatatca aaagaaaata aaaagagcat gatattaaaa 180  
 aatgtatgga ttaggtcctc agcccaaag cttacaaatc tantttaagt ccaagcccat 240  
 aaacaaaata aaataaaatc tggacaagat aagataagat tggatgaaat aaaatctgga 300

cgaaataaaa tttagatgga ataaaatctg gataatataa aatctagatg gaataaaatc 360  
 tggataagat atgattcgat aaaatgaagc tgtattatta tattattatt atattattat 420  
 ta 422

<210> 13573  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13573

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 tatcctaact acatgcaaga ggtaataatg aaaatagaac agggaaagaa aagctatggt 120  
 gcctcccagt aagcgctctt ttaacgtgac tagcttgacg catcgctctg ttatccagga 180  
 acctagagag ttctacttc aaggaccttc ttctcaggtc tcttttctc catcacatgc 240  
 actntaaaat aaacattttg gctaggtgga tccttgttct cctgaaacaa atcaaagctg 300  
 atcttctgat cttctatgcc catccgcagt atcttttttc ccatgtccac cacacagctt 360  
 gcagtagaca tgaatgggcg gccaaagaatg agaggaatgt cagcatcctc ttctatgtct 420  
 atgacaacga aatcagctgg gaatataagg gtgttaacct tcaccagatc attcttagtc 480  
 gatgaatac 489

<210> 13574  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13574

agcttangca cattanggac acatattcta tctcatagtc tcatgactcc atttgatccc 60  
 acatataaac taccatcttt cctgacact atagncttta attgagtctt ntgcaaagga 120  
 tcagactttt ggccctctct gatctctctt aacaacttac cagtaatcct caaagatcca 180  
 agtctcatac tattaagagt gacctcacac gcaaggccaa gggctctaaa ttgttctagg 240  
 agatctaact cccaatccat caaggcagat atatgtatgg atttccaact caaggcatta 300  
 gccactacat tagctntgtc aggatgataa ctaagctcaa aatcataatt cttaagaaac 360



tntaaccata tcctctaacy catgttcate tctttctage taaacatgta cttaaggctc 420  
 ttatgatcgc taaaca 436

<210> 13575  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13575

agctntatca tatggatgta taaagcgcat tcttatttgg cnttattcaa gaggaagtat 60  
 atgtagatca accccctgta ttgaaaact cagagaagcc taatcatggt tttagattaa 120  
 aaaaggcttt atatggctta tagcaagccc ctagggcttg gtatgagcgt ctgagtaagt 180  
 tcctttttaga aaaggatttc tctagaggca aagtagatac tactctnttc ataaagagaa 240  
 aattacatga tattntattg gttcaaaatt atgttgatga tattatTTTT ggatctacta 300  
 atgaattatt gtgcaaggaa ttctctcatg acatgcaaag tcagtttgaa atgtcaatga 360  
 tgggagaact taatttcgtt cttggattac anattaaaca aaccaagact ag 412

<210> 13576  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13576

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 attggggaaa atcttctgag ccacaataat tctgtcacca ctttaatgac caggaacaaa 120  
 gctagattaa aaatgatggt tcaacttact tatataggggt ctaatcctca nagagagtaa 180  
 cccgataatc acattatatg tcacattaca taaactaata ggcttaaaat ctttcataag 240  
 actaacctca tctttcttag gaatgagagt gataaagggtc tgggttccttc tgaaattgca 300  
 tgaagatttt taaaanaatt tcggacaaaa ttgtagagggt catcaccaac cacaactcaa 360  
 tacttgtaga agaaaactgc tgaaaatgggt ttcaatgtag gtaccttgct gaanatgtat 420  
 cagtcattan aagagcaatc tanttatccc attantgtgt atgtngaaat ccgagttatg 480  
 cacttgatta c 491

<210> 13577  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13577

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 aataaagatg attagagatg ccacttcaag gagaagatga gtcaagaaga agttcaccac 120  
 catagggagc catggataag agcttgaggg taggagaaga agaatagagg gagaaagaga 180  
 tagggagcat gaaatttgtg cctcanaaga ggtctgaact ntgaagtgtg attcttcaat 240  
 gaataaagtt gaaaaaatgc acacacatga cctctattta tagcctaagt gccacacaaa 300  
 attggaggaa aatttgaatt tctattcaaa tttcacttga agtttgaaat gaatntgtgg 360  
 agccaaaatt tcactagtta tgattagtga atttcagtta tggctcagcc cactaatcca 420  
 agatcaagtc caagattctc cactaagtgt ggtaggtgt catgaggcat gttaagcat 479

<210> 13578  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13578

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 ataagacaaa atctagatga aataatatct agatgaaata aaatctagat aagataatat 120  
 ctagatcata taatatctag atgagataaa atctagatat gataagataa aatcttgatt 180  
 aaataatatc tagatgagat aaaatctagt aagataagat ttggtagaat aaaattgtct 240  
 gttctcttca agtccaagcc caattttgga ttcaaaccoc attacttata attctcctga 300  
 aattaaatta aaaacacaaa attaatccag taggcccag tgataaaact gcataattaa 360  
 tttgaccatt aaggctaadc agtaattaaa atggtgacaa aaaggggtaa gaaatatgag 420  
 anaatgatga cacatcattc atgtttcata cttcatatgg catggaaata gtataaactn 480  
 tntcagtaag tactc 495

<210> 13579

<211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13579

atattgattt ctntaatttg cacaccatgt gtttctgtcc ttctactgag aaccccattg 60  
 actaatccat ataaacattc tcatctaaat atccattaag aaagagagtt ttcacatcca 120  
 tctgatgtag ctccaagtca taataggcta ctaatgtcat gataatcctg aaagaatcct 180  
 ttctgtgaaac cagggaaaat gtctctntat aatcaatgtt atctttctaa gttaaactct 240  
 taacaacaag tctagccttg taacgttcga agttggcatg agagtcacat ttagtcttga 300  
 agaccactt acaaccaact ctcttacaac cctttagcaa ttctataagg tcccaaacac 360  
 cattatgttc catggaatnn tattttccct tcatggcatn taaccagttc tcanaattat 420  
 cacaacttac agcttgtgaa aacgaaactg gatcattatc attaatgctt aag 473

<210> 13580  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 13580

gacccttagg ggctatgctg atggcttctt accgtcccaa gcttcaattg gagacttgtc 60  
 ttacagact tagtaggaca tctggtgagt atgtaaactg cagtgtagac tgcttcagcc 120  
 cagaatgtgt tagagagtcc ctcttccttg agcatcgatc tagccatctc cataactgtg 180  
 cgattctttc tctcggacac tcgcatttgt tgagtagaat atgcgactat aagttgtcgc 240  
 tcaatgcctt catcctcaca aaatctttca tactcgcgag aggtgtactc tgtgccgcga 300  
 tcacttctta gtact 315

<210> 13581  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13581

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acttgacctc ttacaaaaga ttgcccata aagaaattgc tcaatctttc ataccaaggt 120  
ctaggtgcta gctttaaacc atacaatgcc tttctcaact tgtaaacacg attatggtgt 180  
tcaactgtcta caaaacctag aggctggacc acatatatgt gttcttcaac gtatccattg 240  
agaaaaacac tttgtacata catccgatac aacctgatat tcatactaca tgcttaagca 300  
cacaacaacc taat 314

<210> 13582  
<211> 468  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13582

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ttcacctgac gaagacactg acaaaaaactt atcttctnct tcttggacaa agtatggcag 120  
gctgggggca agtaaattnt cttcccatca gaccttggat gcaactgtga tcttataccc 180  
atatcagcta gatcttgacg ggtattcaag ccatecttcg tcttgcttg aatgttaagg 240  
agcatcccaa tcacactgtc acanaacatt ttctccacat gcataacatc aatacaatgt 300  
ctaacgtcaa gatcacacca gtacggaaga tcaaagaana tggacctctt cttccatatg 360  
caactctgac ttttatcctt cttttgnngt cttccaaata cagtgttcag gtgttgaacc 420  
cgctgatata cctgctcacc agtcaatggt atcggcgcaa tatcatgc 468

<210> 13583  
<211> 456  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13583

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agatgtttta tgaatgacaa tcaaagggtga cttggaaaca cgaatttaaa gagacttttc 120  
attgccc aaa cagctttatc ctctcaaaaa gattccttgg tcaaccactt gcatactcaa 180  
taaagaattt tgattgatct tcattatata atctatctct ttttaagagag atttcttctt 240  
ctcttcttct tatttctgac aagggattaa gagaccgtgg gtctcttgg atagaggact 300

cctgaataca aggggaagggg tgteccctgtg tgggttcagac tntgtaaaaa gagtcttaca 360  
aagagaatgg aatatctcaa gtgggttggt gatgactgga cgtangcacc agaagtggcc 420  
gaccagtata aatcaagttt cattcctctc ttcctt 456

<210> 13584  
<211> 336  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13584

ttcaggtgct ggaactactt tacatggtct tgatggttcc tatgcaagnn gaaagccttg 60  
gatgaaaaag gtatgcctat gtttgtgtgg atgatttctc cagaattacc tgggtcaact 120  
ttatcagaga aaaatcagac acctttgaag tattcaagga gttgagccta agacttcaaa 180  
gagaataaga ctgtgtcatc aagagaatca cgagtgacca tggcagagag tttgaaaaca 240  
gcaggtttac tgaattctgc acatctgaag gcatcactca tgagttctct gcagccatta 300  
caccacaaca taatggcata gttgaaagga aaaaca 336

<210> 13585  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13585

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atggtgtggg ttaccattat tggaaaactc gcatgcaaat ttttatagag gcaatagatc 120  
tgaatatttg ggaagccata caaatagggc cctgcattcc aactatggtg gcaagaaata 180  
caaccataga aaaacctatg gaagaatgga gtaaggagga aaaaagatta tttcaatata 240  
attacaagc caaaaatata attacatctg ctctaggaat ggatgagtac tctaggggat 300  
caaattgtaa aagtgcaaaa gatatgtggg ataccctaca agtaacacat gaaggtacaa 360  
cagatgtaaa aagatctatg ataaatacat tgactcatga atatgaatta tttagaatga 420  
atccaaatga cagcatacag gacatgcnat agaggttcac acatataatt aatcat 476

<210> 13586

<211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13586

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 caatcatctt tgaatcatct atctttcaat ctttttcaac atcatctctc aaacatcttt 120  
 caatcaatct ttcaatatct ttctacagaa ttttctgatt catttctctt catctttcta 180  
 aaaagttttt gatcaacact ttctcttcca agaaaagttc tttgttcaaa aacttgtgct 240  
 attcatcttt ntcattctct tctccttttt ccaaaagaac aaaggactaa ccgcctaaat 300  
 ntctttgtgt ctctcttctc cctttgccaa aagaacgaag gactaaccac ctgaattctt 360  
 ttgtctctct tctcccttac aaaagaatca naggactaac cacctgagaa ttcttttgat 420  
 ctcccttcc ctttaagaaa 439

<210> 13587  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13587

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 acaaaaattt gagagaggaa agttgataa aacacatttc attaaaaagt tctctcataa 120  
 cattttactc atgtaagttt atatggatga catcattttt ggttctacta atcgatctct 180  
 ttgtgaagat tttgtacaca agatgcagga ggagtttgaa atgccaataa tggggggggg 240  
 gattaaatta ctttcttggt ctctatgtga agaanattga ccatggaaca tttctctatc 300  
 anacaaagta ttgcacagaa cttctcaaga agtttaagat ggacaaaagc aaggaggatg 360  
 aaactcctat 370

<210> 13588  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13588

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 aaccctcaa atcattttac ataatcatat caaaatcaaa ggaatcaaaa tcatagggtc 180  
 aaaaacaaga aaacaccaag agtacttaat tttatcaatg tagtcggtgc tgtacaagac 240  
 ctgatattgc ttatgtagtc ggtggttga gtttaattctt gtgtaattct aagaaggaac 300  
 attgngctgc tataaaatag atactcaa atcttcgtag cacaactagc agtggttgtg 360  
 cttntataa ggaagcatg tgtagaagg atacacatat gtgggcatgg ctagagatgt 420  
 nattctagaa atcaacatan gatattact acttta 456

<210> 13589  
 <211> 473  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13589

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 tctctattag acactatgct agatggcaca ccatgtagtc tgagaatctc actaatatac 120  
 agggaggcta acttctccaa tgaaattttg atattaattg gaataaagtg agtaggcttg 180  
 gtcagtctgt caacaataac ctatagataga tttaaaccta tgagggtcct agatagtcct 240  
 acaacaaatt catggaaata ctgtccatct tccactgtgg tatctctaag gattgtaact 300  
 tacctgaagt tctttgatgt tctatcttag cttctgata gactagacat gcatacacia 360  
 attcactaac ctctctcttc atgttgggct accaaaacat tgtctttaga tcttgatata 420  
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<210> 13590  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13590

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tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180  
 cgtatttgcc tgcaatgact aactgatgc gcagaaagtc aagctagcaa cagctgaatt 240  
 ctccgactat gcccttgttt ggtggcataa ataccaaaga gaaatgttga gagaggaaaag 300  
 gcgagaggta gatacatgga ctgagatgaa aagggtgatg agaaaaaggt atgtgcccac 360  
 tagctataac agaaccatgc gacagaaact ccaagggtg tcccaaggga atttaaccgt 420  
 ggaagaatat tataaagaga tggaaat 447

<210> 13591  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13591

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 acaaagttga gctgcccgtt gaggataatg ttagttccac cttcaatgtc tctgatttat 120  
 ctctttttga tgcagatgga gaatccgatt tgaggacaaa tccttctcaa gagggagaga 180  
 atgatgatga catgaccaag agcaagggaa aggatccact tgaaggactt ggatgacctt 240  
 tgacaagggc tagagcaagg aaagccaagg aagctcttca acaagtgttg tccatactat 300  
 ttgaatacaa gcccaagttt caaggagaaa agtccaaggt tgtcagttgt atcatggccc 360  
 aaatggagga ggactaaatg acaccacttt gtttc 395

<210> 13592  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13592

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 atgcaagatg attgctcttt tgtggggaat tacaaggagc ttatgaagca tgtaggtct 180  
 aagcatccat ttgcacgacc acgagaagtg gaccactat aagaagaaaa atggaagaga 240  
 tttgagtgtg agagagaacg gaatgatgtg attagcacia ntttatcttc aaca 294



<210> 13593  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13593

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 gatgtccgat tcggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120  
 gagaaatncg aatggtcata acatttcact cggatgttcg atccggggac ataattttatc 180  
 gagacgctcg aaattgaaca accgaagctc tcgacaaatt agaatggtcg taactttttca 240  
 cgcgaaatgtt cgattcgggg acataactca tctagacgct cgtaaataa caacggaagc 300  
 tctcgagaaa ttcgaatggc cataagtttt cacacggatg tccgattcgg gaacataata 360  
 tatcaagaca ctcgatattg aacaacggaa gctctcgaga aaatcgaaatg gtcataacgt 420  
 ttcac 425

<210> 13594  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13594

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 ctttatactg acatgggtata tatacaacct ctattccttt tcaaataattt cttnttcctt 180  
 tttcaatata cactcgttgt ttatataaaa acttccttta tatacactta ttgctcatat 240  
 acaagaattt cttttcacac attgtttata tacaaaaatt tcttttcttt tctttatata 300  
 cagatatgac atttggtcac aacgcctctt tctttnttta ttcttggcgt tatcatgatg 360  
 tttgttcatt ntatttttagg acgacgttcc taaatgaaaa ctctacacgg ttccggaatt 420  
 ccaacaaaca ctatcgacaa taacgaagta agcactaacg caacaacca nacanaatgt 480  
 atgcataaaa canatgacaa tcaaaacaac 510

<210> 13595  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13595

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 tttgatagaa ataatttggc cttttctttt atgaatgata ttacatttat catcatcaaa 180  
 gatgactcta taatatttat gaataagttg accaactt agaagatttt gagtaagacc 240  
 tggcacataa natacatcat ggataatatt cttgctacca ttttgagttt aacagcaatg 300  
 gtggcctttt cttcaacttt ntgaacattt ccatacacia gtgtaacttt gaaatttatt 360  
 gct 363

<210> 13596  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13596

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 gattctcaca acaatgtgct caaatgtggg atctaacgag cgtagtatct tctccataat 120  
 tgttacttct tctaacttct cacaattttt ttagttgatt tgaaactgca agaattcttg 180  
 aaaaataatc ggaaatggac tccgactctt tcatatgtaa ggattcgaac tcagctctta 240  
 gagtttggag acacactntc tttactttgt ctctcctttt ttcaaccatt tctgaacat 300  
 catgtgctcc aagaagtgtt ttctttttta cgggccaatg gtcataagggtg ctccccctta 360  
 gaagtggaac ttggaaggat gtcactccat tggcttgcca tactcta 407

<210> 13597  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13597

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ccctcattaa gaactagctc ttttcttctt ctattgcctt tagttgaata cacctttggt 120  
tggttctcta tttggttctt aaccctctca tgcattcttct ttacaaattc taacctagat 180  
tcccccttctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtgtt 240  
aggggattga acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300  
ctattgaggc aaattctaca tgaggaagat actcatccca agacttat 348

<210> 13598  
<211> 399  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13598

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tgggtgagcc gtccatggat tgactatgct ggtgtctaac tctgggcctt tcattaatcc 120  
caataacaac attctcggta gaagaggtgg gtgcccctga cgccggtgtt gaagccgatg 180  
ctcccacagc attagacggc tcaaccattt gaaacgtgga cgttgccgac gatgaattga 240  
acttatccat atcaaggtac atggacagca agtcctctc ggcatcatcg gagaaggaag 300  
gaccatcacc acctccaaca acaccaaggt cactgtcgaa actaatatca tccggtaaag 360  
tgagaatctn cgaatgagca cgctatgac ctctatttc 399

<210> 13599  
<211> 473  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13599

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tggttactag tatttaagcc ttctaaggag ccttaaatat gtttgagctg ctttatgata 120  
aataactgac ttttaatttta aatactaata aattntttct tgcattgaat tttttatata 180  
tgaaactttt gttttgagtc tcaatcattt agtaagtgat aatgtgacac tntgcaatta 240  
gattttctca atttactagt atttttgcaa gtatagtgat gaggctaaat gtttatttta 300

tacaactaaa atatataata aataaacatc tctaaatata taaattatat tataattaaa 360  
 atttgtaatn tataaatggt gatatactta tnaaatatat tntagattta agataattaa 420  
 ttatacctct gatataattat tattttaata ttgatgaatt tttaaaaaat atg 473

<210> 13600  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13600

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 tacctctgat tttacctctg ttatgggatt tttttttctt tgaaaagtta cttctgtttt 180  
 gatcttcatt ccattatttc tacaacttc ccagtatatg ttccaccaat atttatctaa 240  
 agtggtatgt tctttttcta cataatcttt cattttttta actccattac tattttgata 300  
 ttgatcctag attgtgggta aattgtctta ttatttatca taaattcctt tcattttgtc 360  
 ttttgttgtt ttcgaatatt aattatttaa tttgtattaa taatatttca aatagcagtc 420  
 aacctgttcc tgatatcttt ntgtagtgtt ctttgagttg gctgctatgt 470

<210> 13601  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13601

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 agtttacaac ttgtaatagt aatcatataa ttagctataa aaacaattca ataattaaaa 120  
 caatctaatt gtaccaatgt tgatggttta tgacgataat gaacaaaatg agcccattga 180  
 tctttatcta tgccatcgg cacatttttt atgatttcat ctctagtttt ggttggatcg 240  
 ttgaattcat tccataagct ntgcctattt gtagccatt ttcttcccat actcaatatg 300  
 caataccatt ttgcaccagc ttcattaatc ttaaaataaa atcgaggcta ataaaaagat 360  
 aatattatca catatcagta tgcaaataat atatatatga aaaatagtta agataggggc 420

tctaagtggg gtagatataa aatagtatat ataactaatc ggcatacctt ta

472

<210> 13602  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13602

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cttttcattc ctctccccc aaacttggtc tgggaattgcc accaaaaatc attgaaaacc 120  
aacctttgat cattcctctc gcaattctta atactcgttg ggactacttt tcaggggaac 180  
ccaaattact ggtttttagt cagtgggaag gtctctctcc agacgatact acttaggaag 240  
cctgngatca cttgaaggag acatagcacc ttgaggacaa ggtgttcttt gaagttggag 300  
gggatgatag ggttgccgac catcagctc atgctaccag cactatccac caccggttcg 360  
acatgaccac taattccaag cccaaacgaa ggatcatcgc tcccaaacat ctaacggatt 420  
acatttaaca gaatcctgta gatgttgctg agctggaaac acgttagt 468

<210> 13603  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13603

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gatatgtctc aagcattcca accacaaaat caatgccagg tcttgccacac acttgtgcat 120  
aggcttccta caatagaagc atatggaatg tttctcattt gttccatttc aagctcattt 180  
ttaggacatt gattcaaatt gaatccatca ctttcacaa taggtaccat gttgggtgaa 240  
caatctttca tccgaaatat ttctagaact ttattaatat aggctttttg agacaagctg 300  
agaatccctt gagaatgatt tctatggatc tctatgcaa tgaaatatgt tgcacacccc 360  
acatgcttca tgtcanaatt cttagaaagg aattatttac atcatgtaac atcccaaat 420  
c 421

<210> 13604

<211> 359  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13604

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 gccaaacaaa gtcagggtca cgataactcg tctgtgcttt ttcttccatg ctatatgtag 120  
 caaagtgatt gatccagtaa tggttgatga gttggaaaat gagggccgcaa ttatactgtg 180  
 ccagttggag atgtattttc cccctgcttt ctttgacatc atgattcact tgattgtgca 240  
 tctggtcaga gaaatcaaat gctgtgggtcc tggttatcta cgatggatgt naccgggtga 300  
 gcgatacatg aagatcttaa naggggtatac aaagaatcta tatcgttcgg aagcatcta 359

<210> 13605  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13605

caagctttga cggctctatac catgctctac gatctcagga cggagaaaga tctatatata 60  
 ggctngctaa gggtagagag aggaagacta gagatttga tcaagtaaag tgtgttaagg 120  
 atgaagaagg caaagtctta gtgcatgaaa aagatatcaa ggaaagggtg aaggcgtatt 180  
 tccacaactt atttaatgat ggatatggat atgactctag cagtctagac acaagagaag 240  
 aggaccggaa ctataagtac tatcgctcga ttcaaaaaca ggaagtaaag aaagcgttga 300  
 aaagaatgag taatggtaag gcggtggggc cagacaacat acatattgaa gtgtggaaaa 360  
 ctcttgaga tagaggtctt gagtgggtca ccgaactctt taacgaaatt atgaggtcaa 420  
 aacgcatgcc ggaggaatgg aggagaagca cgtagtgcc aatctataag aacaaggggg 480  
 atatacaaaa ttg 493

<210> 13606  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13606

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 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tctctggag 180  
 aatagacatg tggaggagta actggtttct tgagggtgcc ataggtaaca gttgtccttt 240  
 gatctgttgc ccttcattag gacttcactc ttctcanttg tcaccaagca ttctgacttt 300  
 gtgaagatta cattgaatcc ttcacacac agctgactga tgctgatcaa gttngcagtc 360  
 agtcccttca ccagcagtac tttgtccaga ctaggaagtc catcatggac tatctttccc 420  
 attccagtga tctttccttt agagccatct tcaaagtca catagctagt ggagca 476

<210> 13607  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13607

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 atgtcgatga tatactactt ctaccaatga tataagcttc ttacaagaga ctaagaaatt 180  
 tctaacgaaa aattttgagg tgaaagatct tggggaagtc tcttttgtat taggaatcaa 240  
 gatactaaga gatcgctctc aaggatcct aaggttgtta caagagagtt ataccgataa 300  
 ggtcctagat agattcggca taaaatataa taaaccagga gataccgat agctaaagga 360  
 gacaaatnta gtctcaaaca atgccttaat aatggccttg aaagaacaga gatgcaaaag 420  
 aatccttatg catcagcagt aggaagtcta acatacac 458

<210> 13608  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13608

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gcttggttaa catcattagc ttgacacatc gttctattat cctggatcaa tcttggttct 180  
 ctcttttaga accttctcat ccaacacctt gacctgcaaa cacacatcct ggtccattaa 240  
 ttctcttctt tcattaaata gatcaaaact aatttggtga ttntcaagac tcatttccaa 300  
 atttttcttc cccatgtcca ccacacagct agtagtggac ataaatggac gtcctaaaat 360  
 gacaggaata tntgcatctt cctcaatgtc cattacaaca aaatcggtag gaaaaataag 420  
 atgcttgac 429

<210> 13609  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13609

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 actaagctca cctccttgac aaaatacatg aaaatacaaa aaaaagtccc tactacaaag 120  
 actactcaaa atgccctgaa atacaaggct aaaaccctat actactagaa tggccaaaat 180  
 acaaggccca aaagaaggaa aaacctattc taatatttac aaagaagagt ggatccaacc 240  
 ttgacccatg ggctcaaaaa tctaccctaa ggctcatgag aaccctaggg ccttcccttg 300  
 gatctctggc ccaatctact aggagtcttc tatccaatgc ccttgcgggg taagattgca 360  
 tcaagaacac acattacttg tcatgcccc accaacgaaa acatgattat gaggtgccga 420  
 aacatttata 430

<210> 13610  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13610

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 acattattgt cgtttgaatt agctcagagc ttcagaattc aatttcgatg gtctcgatat 120  
 attacgggtc tcaatcagac atctgagtaa aaaagttatt atcgtttgaa tttgctgaga 180  
 gcttcaacat tcaatttcga gcgtctcgat gtattacggg acttaatcag acatccgagt 240



aaaaagttat cgtcgtttga atntggtcag agcttcaaca ttcagtttag agcgtctcga 300  
 tatattacgg gactcaatca gacatccgag taaaaagtta ttgtcgttgg aaaatcctca 360  
 gagcttcngt attcaatntc gagcgtcttg atatattacg ggactcaatc agacatccga 420  
 gtaaaaagtt att 433

<210> 13611  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 13611

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 cttatgacaa tagcatcatt tctggcacta aactgttggg agttggaagc catcttctca 120  
 attaaatttc tggcttcagc aggggtcatg tctccaaggg ctccaccact ggcaacatca 180  
 atcactactga tctccatgtt actgagtcct tcataaaaaat atcggagaag aagctgctca 240  
 caaatctggt ggtgagggtca actggcacat agttctctaa atctctccca gtattcatat 300  
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 gaagtaggga aaatgttctc taagaatact ttctc 395

<210> 13612  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13612

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 gcaatagtat tttgaataat gtgaacttat tatctttata tttatgtcct gtatttttcc 180  
 tttaactatt cggcttatgg tttattatac ttctgtcaat attttttggt ttatgtcaac 240  
 aattatgtta tgtaactaa taaatgaaaa taacaattaa gatatagtca aatgtgttct 300  
 ttgttattga aattcaattn tattagttca tggtgttcta tatctatata ttaattataa 360  
 tgtcttataa tganaataat tatagtttaa agtaaattgt tttataaaat aatntattga 420

agtaaaagaa acaaatgaat antgttgta gattttaaaa ttatttatat aananaatat 480  
tcta 484

<210> 13613  
<211> 432  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13613

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agtgatttga ggaaggccac catccttgct ttccagtatt catagtgtgt tccatccaga 180  
attggtgggc tgttcaactgg tcttcttctt ttctccatgt tcatcagaat ttatctccct 240  
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gccagatgac gtacaggatg tcacgacatc acgcttcaga acatgcagat tatctctgag 360  
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tcacctacat ct 432

<210> 13614  
<211> 451  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13614

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gtgctacata ctagagattg atgaacacaa ttntcaagca acaaatctga tgaanagtgc 180  
aggtctatgt caacgacatg gtcgtcaagt ctcatacatg agcccaacac gtggcagacc 240  
tgcaagaagt ctttggaaag ctctacaaat gcaacaaana ggccaatggc aaatgggtgaa 300  
tgtgcacana ctacactgat ctaagaaagg tgtgccccaa ggatgcatac cttctgcccc 360  
gcattgacag gctagtgtgat agagcgatcg ggttccanng tgctagcttc ctggatgctt 420  
actctggata caaccagatc atgatgcaca c 451

<210> 13615  
 <211> 342  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13615  
  
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 gctcagaatg cagaagaaga agcaacgata aattttaataa tgttctttta acatgcaaga 180  
 caaaattaat tgcaataaca taaatgagat aagggaagag agaaatgaaa actcgattta 240  
 tactagtcca accacttccc gtgcctactt ccagtcctca agcaaccac ttgagatttt 300  
 tcattatctc tataaatgct ntacagactn tgaacacacc tt 342

<210> 13616  
 <211> 491  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13616  
  
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 ggaatgttcg ctagggtcca gcctatagcc ttcttgtgct tcttgagaac tgataatagc 180  
 ttctctctt gctcatcagc aaggaggga gatgtaatta ctggaaaact nttgctatca 240  
 tccaagtaag catattnta aattgatggc agaggcttca attctggtgt gggcggtctg 300  
 ataatgtag aaagagatgg tttctcagcc tgtacctcan aaataaagtc agaggatatg 360  
 gtatttcctg aaacatggtt agttctatct gactctagaa aatcaatctc aagaggtaaa 420  
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 atatgatcaa c 491

<210> 13617  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13617

ggacaagtgt tgttcagtgt tgagagtggg tttcttgaca agtggtgtcc gggttgcttc 60  
tgtcaagttg tctgggggtgg acaccctttc tgatgcaaga ggctccaaga ggattgggct 120  
agagctgctg aagaagggtcc taagggttctc atgaacttta ggatagattt ttgagcccat 180  
gggccaagggt tgggtccaat tatctttgta cgtattagat tacgatgtca ctatatttgg 240  
ttcttgtaat tagggctcca taatgtaggt agggtagcct agaaatatag gatntttcag 300  
cccttggtatt ttatggcacc tagacntagt tttgtattac gggtagttct gtaatttcac 360  
atgcactaag tgaatattta atgtgtgtgt tggcaaataa atttaattga attggtagaa 420  
gccaatcca attaatatatt agagggggag gtgagcattn gcttactaca cccattgccc 480  
acatcatata 490

<210> 13618  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13618

gattgcatga tgatatgctc agaacacgta gcttgtgcaa tgaagataaa gcatganctc 60  
cattcctgtc ctttgcagat attgctacac catctagata caattctgtg atatctgtaa 120  
ggttttgaaa cattgctatg tttggctttg caagtttcac gcagtgaggt gaggtatatg 180  
aacaagacaa atcaagagta attaaccctc tgagggtgaga aatcttttgt ggaatctgcc 240  
cctcgaagct agtattagac atgttcaaatt acctcaaatt gttcagcttg taaagctctg 300  
aaggaatcac cgaacgaaag ttattgaaag ccatattaaa gctctgaaga tattgaaggc 360  
tgaaaagaaa gcttgtatta acaagtcctt tgacatagag tcacgtgata tttaacattn 420  
tctctaacac ttagtaaaaa t 441

<210> 13619  
<211> 502  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13619

tatgcaanaa tcaaaatcat ttcttataac tnttgaataa aatacgtaga tcggtagaat 60  
aatacgtaat ttaggatggg ttttttaaaa atcaatcata ttttagagaa taaaacactt 120  
tccaaacaat ttgatggaca aagaaaagag gtgcccaa atgttaattt tgttctttag 180  
tctattttct ttgtggtgtg tttgtctaag atcccttgcg caggtaagt attatgttga 240  
tctgtgtaat tttctcaata ttttttacat acttattttt ttctcatcta tcaaataat 300  
ttctaaagta ttttaagaaa aaaatatcac aaactacttt aagtatattg atttaatagt 360  
catntttatc ttggcaaatg agataaaaaa aataaaagga naaagaaatt aanagaatat 420  
ttaaacatga naattatatt acaataattn taagataaaa ttataatgga ttaaataat 480  
ctttntatct naaaataata ta 502

<210> 13620  
<211> 500  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13620

tatctctctc attcttgatc actgtgaggc ctgtcttctt atgaaccact tggactagac 60  
tcaccactg actgtcagaa atggggtaaa tgattcctgc ttgcaagagc ttggtcacct 120  
cctttttcac cacatctaga atgatggggg tgagtcgccg ttgtgactgc ctactgggt 180  
tagctccatc ctctaaaagt gtcctatgca tgcangtaga tgggctaata ccatgaattc 240  
ctgctaaagt ccatccaatg gctttcttat gcttcttgag cactagcaac aacttctcct 300  
cttgctcagc agcaagggaa gcagagatga tcnattggaa attttccttg tctctccaa 360  
gtatgcatac ttgaggttta ctggtaaggg cttcaactct ggtgtgggtg gtggctgaac 420  
agtggaagga actatggtag gagaagagga ggaggggtcc ttaccctgta cctcataaag 480  
caagtcagaa gtatatgtac 500

<210> 13621  
<211> 500  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13621

ctcgacccgg atccttaagt cacctgcggc atgcaagctt gccaatccac cgtgccgtat 60  
gccttctgaa tatccatntg caccaagcat ctaggagaca catntttcct accataccct 120  
ctcaccagct cctgagcaag taatatgtta tcttgatata tcttaccagg aataaaagct 180  
gattgagtgt cttccaccac actatattat acatcactca gtctgctagt caaaatcttc 240  
gatatcacct tataaattat gctacaacat gatattgggc tcatgtcttt gatgggtttt 300  
gcctccgggg acttagggat aagttagaca atagagcagt tgacaactct gtacaactta 360  
ctagaattaa aaaattccag gatagcattc tgcacatcat tntttacaat aggccaggcg 420  
gcttnaaaa atgagaagan aaccatctat accaggagct gtgggttcacc aatatcacta 480  
gacattcana tctctttgat 500

<210> 13622  
<211> 513  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13622

tctgcagttc agacatcata naagttcaat aaattgacat gattcaattg tggatattca 60  
tagatctgca attacagaga caatatttaa caatgcttgt attatttttaa aacacaaaacg 120  
caaaattgga tgaaaaccaa taagaacaac ttcactaatt tctccataaa acccaaaaat 180  
ctattttagt tcatcattca gaaagggaga aaggaattat gcatacatga gaagttatta 240  
aaatgatacc tttggaattc aaaatataaa aaatgatgcc aggtgatgtc gccatttcac 300  
tcttcctga aaattcaaat ataaaaatta ctttatccga aaattagtta catattcagt 360  
agatgaacta cttattaatg gaatacaagt aaagaaacat aaatatggat acacatagat 420  
gttactgcat tcaaaattag catgattaan ataaacagca gattcttaat aatatntata 480  
ccaaaatcat gcataagctc cagtccagca gag 513

<210> 13623  
<211> 478  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13623

atctctgagt cacctgcggc atgcaagctt gtaattcttg atccgcagat aacatagggtg 60  
 gtaaagtttg ggactggaac gagtcaccaa tggctttctt gaggaaagag aaataaaatg 120  
 tcagatgaat tttactgtga gatggaagat ccaacttata agcaacaaca ccaaccttgt 180  
 ttaacacctg gaaaggacca taaaaccaag gggagagttt ttcattaatc ctttttagcca 240  
 aggatcttct cctataaggt tgcattcttca agaacacca atcaccgact gcatattcta 300  
 tgtctcgggtg gcatttgttg gcatttgctc acatgatata ttgagacttc aacaaaattt 360  
 ctcttagagt agccaataat tcattccaag agnattttag tttattgact tcttcaaggc 420  
 gggaaggaat ggtggatccc ttgagaatgt gagngggatc atgtccatac aaagcttt 478

<210> 13624  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <400> 13624

agtcacctgc ggcattgcagc ttcacacagt ttattttctc ataccttgag tttgttatac 60  
 caattactaa gactttccta actagatgat taagatgatg catattaatg tgtgcatccc 120  
 tacgatgcca caaccaagaa tcatctatct tacttaccaa gtaactcagc tcatgaaatg 180  
 atgcatgctt aacattcagc atatagatat tacctattct cttgccaatg tggacaactt 240  
 tatcggacat ggcttcactt gtaagacaac aatttttgtt gaattcaatt ttgaagcctt 300  
 tgtcccaaag ttgactaatg cttagaaggt tgtgttttag tccatccaca tataacatgt 360  
 tctttatttg agttgtgtgt tgatttccaa tatttccttc tcctattatt tttcctttgg 420  
 tattggctcc agatgtgaca tgctctccat c 451

<210> 13625  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13625

cgtgcattgt gtgcaatata caattcccgg tacaccacat caaaatgggtg tatcagaaag 60  
 gcgtaataga actttaatgg atatgggttag gagtatgtta atcaattaga ctttaccctg 120

atctttgtgg atgtatgcct tgaaaactac catgtatttg ttgaacaggg ttcctagtaa 180  
ggcagttcca aagacatctn ttgaactgtg gacaaatagg atacctagta taaggcacct 240  
gtatgttttg ggttgctaga cagaaataag gatttataat cgcgaagaaa gaaaattgga 300  
tgcaagaaca atcagtggat atttcattgg ttatccagaa aagttaaaag ggtgtatggt 360  
ttattgttct aatcatagta tgagaattgt caaaactgga aatgcaaggg ttattggana 420  
ttatgaaatc agtgggagta cagttccacg agaaatggan attaaagaaa gtagagt 477

<210> 13626  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13626

agcttcttag tttcagatga tgcagatgga gccatcttct caattaaatn tttggcttca 60  
gcaggagtca tgtctccaag ggctccacca ctagcagcat ctatcatact tctctccata 120  
ttactgagtc cttcataaaa atattggaga agaagttggt ctgaaatctg atggtggggg 180  
caactggcac atagtttctt aaatctctcc cgagactcat acaggctctc tccactgagt 240  
tgtctaatac ctgagatata ctctctgatg gctgtgggtc tggaagcagg gaaaaatttc 300  
tctaagaata ctctcttaag gtcateccag ctctgtgatg accttggagc aaggtaatac 360  
aaccagtcct ttgccactcc ctctaatagaa tgaggaanag ccttcataaa tatgtgatcc 420  
tc 422

<210> 13627  
<211> 489  
<212> DNA  
<213> Glycine max

<400> 13627

tgtcttggaa tcaaggcttg ggaattgcat tggagctgcc aaaggtcttc attaccttca 60  
caaaggagta gtggtacggg gaatcattca ccatgatgtg aagtctctga acttattgct 120  
tgatgagaac catgttgcta aagttgctga ttttggcctt tggggtatct tgaacctgaa 180  
tatttaaggt ggcaaaagct gacagaaaaa tctgatgtct atgttaaaat taatgtctca 240  
tcagatacat attatttgta taaagattaa taaataaata attaataatc aaagattaaa 300



ttgtatttta gttaaataaa aaaagttctt aaagataact actacttgat gaaagtaatg 360  
atcttataaa aggggttaat acccactaat atgagacaat gttcccttcc tgacaaacaa 420  
agtattatcc ctaatctagt catcacaac gtaaagagac agaaagaata gtcaaggaag 480  
tgaaatctt 489

<210> 13628  
<211> 453  
<212> DNA  
<213> Glycine max

<400> 13628

agcttatgct gcaaataattt acaatagact ctttcaacct cagcagcaaa atcaaccaca 60  
acagagcaat tatgaccttt ccagcaacag agacaacctt ggatggagga atcacccata 120  
cctcagatgg tccagccctc agcaacaaca acagcagcct gctccttctt tccaaaatgc 180  
tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240  
acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300  
tatgcagaac atgcagtttc agcaagagac tagagcctcc attcagagtt taaccaatca 360  
gatgggacaa ttggctaccc aattgaatca acaacagtcc cagaattctg acaagctgcc 420  
ttctcaagct gtccaaaatc ccaaaaatgt cag 453

<210> 13629  
<211> 509  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13629

tctngaataa gatatgccaa tgttgtacca cagtcaacta tattccctcc tcggttggtta 60  
gatatagaaa atacagctgg attaattggg agaagttgtc cattgacagc aatactctga 120  
agattcaagt tgtaatgagg cctgatcaac aagtcaaata cataaagaat tgcaaatatt 180  
ttgacagaaa aaaaaagaag cataacaagc attttaagaa catgattatt tatctaatac 240  
aaaagcttac ctcccaaac tatcagatca tactatatat atatatatag atagatagat 300  
agatagatag gttctaattt atattaatga cttagattaa ttcactaaac atacatcacg 360

tgacagatct cattctttcc ctgtatgcgg aaaacacaa acgttgggtca tttgagtgtt 420  
 cctcttccca ttttctctga natgtgtgtg cctccctctt cttaaattggc ttgttgcgct 480  
 ctggctctgg tgtcatgcgc tgcattgctc 509

<210> 13630  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13630

tgtgccatag taggccagat attgcttatg gtgtgggtct ggtaaataga tatatgaatg 60  
 atccgaggac ttctcatatg gctacagcaa agagaatttt gagatatgtg aagggcacac 120  
 ttgattatgg tttgttattc tccaaagcaa atcataatca aggaataagg ttaattggct 180  
 tttctgatgc agattggagt ggtgatgtag aggacaacaa aagcaccact ggatatgtct 240  
 tcaaattact tgatccacaa tctgttggag ttctaagaag caagaagatg ttggactttc 300  
 aacttgtgag tcagagtaca tggctgctgc ctcagcagct tgtcaatcag cctggttggg 360  
 gtccctcttt gcagaatnga agattcagct tgattcagtt gttcaactta acatggacaa 420  
 caagtctgct atatgtcttg ccaacaaccc aattccacat ggaagaacaa agcatattgt 480  
 gacaaagtac cactatc 497

<210> 13631  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13631

tcttgagaat acttccatga gaagctagag cttagctaca cacacccctc tcataactaa 60  
 gctcatctcc ttgagaagct tccttaagaa gattcctaaa gaagctagag cttagctaca 120  
 cacacatcta taatagctaa gctcacctcc ttgagatgag aagctagagc ttagctacac 180  
 acccctata atagctaagc tcaccccat gacaaaatgc atganaatac aaaaaattcc 240  
 ctactacaaa gactactcaa aatacctcga aatacaaggc ataaacccta tactactaga 300  
 atggccaaaa tacaaggccc aaacgaagga gaaacctatt ctaatatatta taaagataag 360

cgggctcata cttagcccat gggctcgaaa tctaccctaa ggctcatgag aacccgaggg 420  
ccttcgctgg gatctct 437

<210> 13632  
<211> 478  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13632

agcttgttct tgactcatct tctccttgaa gtgtcgtctc caatcatctt tctccttct 60  
ccattccgct tccattgatc ttcaagaagc aaaggactcc attgatgaaa aagatccaag 120  
gcctacaagc tccacatgga gctacatcaa ttaggatctt catcaagctt tctccttcta 180  
aatttatttg gcctactacg acccttttttg tattttggtg gttgaatctc atcaaatcta 240  
taactggcca catattcata ccattaattg atgtcacctt acgtccataa caaacaccat 300  
atgtatccct tgaatattaa ttattcacat aatcgacaac cttaanaaaa ttttaattgta 360  
ttgcaaccac tacatgtgtg caaggtatgc caaccaatct ccanaagtta catgaacaac 420  
tcnntgttgt tataccaata ataaattntt caatagaata aatatatgac ttcaaaat 478

<210> 13633  
<211> 494  
<212> DNA  
<213> Glycine max  
  
<400> 13633

cggttcatat cattattaga ttacatatta ttctcttatt tatgattaga tactaaatag 60  
tgatttagtc cttattactc tttattaaat tgagggcgag ccttgggtgca gcggtaaagt 120  
tgtgccttgg tgacttggtg gtcattgggt cgaatccgga aacagcctct ttgcatatat 180  
gcaagggtaa ggctgcgtac aacatccctc ccccatacct tcgcatagcg aagagcctct 240  
gggcaatggg gtacagaagt tttatttttt actctttata taattgatcc tctataatca 300  
atattaatcc tatttggtca ttataaataa agacttagtg tggatcatcca acacacacac 360  
aacactacag taaaatactt gtatatatta acatctttga gagaaatata atatcatgta 420  
cacttaacaa taacagcaat ataatgagtt gcctgatata catatcgga tagtctttat 480  
tttcgctatg tcac 494

<210> 13634  
 <211> 152  
 <212> DNA  
 <213> Glycine max

<400> 13634

tatgaccata tcaatcgctg gagagtttcc gacgtctaata tatgagcgta gccatatatg 60  
 atacccttg agaggacctc cgagcgaaaa gatatgacca tagcaatcgc tggagagctt 120  
 ccggcggttca attacgagcg tctctatata tg 152

<210> 13635  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13635

agctataata tatcgaanat gaacaacgga agctctcgta tattcaaata gtcataactn 60  
 ttcacactga ggtccgattc aggtttataa tgtatcgata cactcgaaat taaacatcgg 120  
 aaactctcta gaaattcaaa tggccataac ttttcacacg gatttccgat tcgggcgcat 180  
 aatatgtcga gaggtcgcg attgacaacg gaagctcttg agaaatcaaa tggcataact 240  
 ntcacacgga tgtccgattc gggcaaatca catctcgaga cgctcaaaac tgaacaacgg 300  
 aagctctcga gaaattcaaa cggtcataac ttttcacacg gatgtccgat tcaggcttat 360  
 aatatatcga tacgctcgaa attgaacatc ggaaactctc gagaaattca, attggtcata 420  
 acttttcaca cgcatg 436

<210> 13636  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13636

cgttattaat atagttaata aaaataataa ctaacatgag ctacgcctct gttttactaa 60  
 aggtatactc tgatataatt aattnttcca ttgtttctag tctaggaatt aggatataaa 120  
 catgggttta aaaaaagttt gtggatcatca atgtgtgtag ttacactcta agtttgtaag 180

gagaggatat atatttgatt ttaaaagaat atattatggt gaagataatt ggagatccaa 240  
 ctgaggaacc aaagaatntt aattactgtg ttaacgatgg tgcaaaacat atatggtgat 300  
 tacaatttaa aaccatttga attaaaagat aattaacat gtatgaaacg taaaataaat 360  
 taagagaaat attaatTTAA tttttgtgtg aatatgttag ctagagttgg aatttcaatc 420  
 gtgttgaagt gggttctgca tgattggaac gatgaactct ctgtgaagat a 471

<210> 13637  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13637

tctcacgccc ttgacattta ttggaggagg aagtttctca atatcatcaa tcttagcctt 60  
 gtccccctca atccccctca ctaaaatttt atgtcccaac actatgcctt cttagaccat 120  
 aaagtgacat ttttcccaat taagcaccag attagactct tcacatctct gtaatactct 180  
 ttctaaattc catagacaac aatcaaaaga tgagccaaaa acaaagaaat catccatgaa 240  
 aacttcgata catttctcca ccatatcaga gaaaattgcc atcatgcacc tctgaaatgt 300  
 agttgaagca ttacaaagat caaaaggcat acacctataa gcgaacacac caaacgggca 360  
 agtgaaagt gtcttctcct gatccttagg atccactatg acctgattat aatcagagta 420  
 tccatccaga anacagtaaa atgctnggcc ctgcagtctt tcaagcatct ggtccatgaa 480  
 gggaagtgga t 491

<210> 13638  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 13638

tggtcataac tgttcgcacg gaggtcttat tcatgcgcat aatatatcga gacgcaagat 60  
 attgaacaac ggaagctctc gagaaattca aatgctcata acttttaaca cggaagtccg 120  
 attcaggcgt ataatatatc gagactcacg aaattgaaca acggatgctc tcgagaaatt 180  
 caaatgggta taacctttca ctccgatgtc agattcatgt gcataatata tcgagactgc 240

tcaaaattta acaatggaag ctatcgagca catctaattg tcataacttt tcacttggag 300  
gtccgattct ggcgcataat atatctaaac gcacaataat taactacgga agctatcgag 360  
aaattcaaat ggtcataacg tttcacttg 389

<210> 13639  
<211> 490  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13639

ntccattctc tnggaagttc atcattggga ttgacttctt ctggaggatc ttcattgttt 60  
cctttatcat ttcctttgga atcttggtca tgaatattca tatgttctaa agaactctgca 120  
atatcatcta gcatattctt tcttgacaag atagcattag attcatcaaa ggtaacatga 180  
atggattcct cgatattcat agttctttta ttatatatcc tatatgctnt gctntgtaat 240  
gaatatccaa gaaaaatacc ttcattcagat tttgcatcga attttcctag attatcttta 300  
ccattattaa gcacaaagca tttgcaacca aaaacatgta gatgagaaat atttggttgt 360  
ctaccattat ataactcata tggngttttc tttaaaatgg gtcttattaa ggccctattc 420  
atgatgtaac atgcagtatg tcgcttcagc ccanaaatac tntggaagag aagtatcatt 480  
taataaagtt 490

<210> 13640  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13640

agctaagttt attcttcttg gtgatgcacc tttcgatccc caccaaattc aattcaacat 60  
cctctgaatc acatccttta gagttgctgg aataaagtag atactcatgg tgtatgaagg 120  
catttgctct tctccaagtc actatttttc ttaaaaaaca gaccttttcc aggatttctc 180  
tttaaatacc taaaaatttg gtagaatgcc tcaatgtgtt tttcataagg agagtgcata 240  
aactgatgta caacactcac tgaaaaaaca atgtgttcgg gtataagaca agtaaatcaa 300  
tttgccaact aacctttggt atcttccaac atcaatagga accacttctt tttcccacaa 360

tttccattg ggatcgatgg nggtatctgc tggctacaa ccgctcattc cagtttcttc 420  
 caagaggtct agaatactct tctgtangga aacaacaatt cctctttttg agcanacaaa 480  
 ctccattc 488

<210> 13641  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13641

nttcctttgn gttctctgct agagtttcca agtgtagag agtagaagaa ggaattgaag 60  
 ccttaatttc actgtgtccc tgcaaggggc atttatctct ctttactggc attatttcgc 120  
 aaatcccaac agtggaatg tgtaaaaata agttttaag ggggtgtcca aatttcagga 180  
 cgatccaatg gttaataagt ccaggattgt agttttactg ggataggttt ggggtgatgt 240  
 gggaaaaaga gagggttttg ggagaggaag aatggaggac gaatttggga gaaagagaga 300  
 gcgtagaaac atatcgtaaa tgtaaaagct aacttaatat gtctctattt atagttaggg 360  
 tactetaagc ctattattta ctctattttt ctttatnta ttaatttata aaaatgaact 420  
 ctatntttct atttcattaa ataaataacc aattaanaac ccctttattg tctanaacat 480  
 cactgtactc ta 492

<210> 13642  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13642

nntgatttcc ttgttccgga gacctttcat ttctcatgtg cacccaaacc caatctacgg 60  
 gttcgaagac aaccttcttt ctccctttgt tggtttgttt agcatagctt ttatttttcc 120  
 tctcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc ttgcttgac 180  
 cttctttatg cttaaaaaca gaaacattat gcataggcaa aagatcaaga ggagttagt 240  
 ggttaaaacc ataaacaact tcaaaaggag aacaattagt ggtgctatga acaactntat 300  
 tgtaagcaaa ttcaacatgg ggtaaaacaag ctccccaagt ttaagtctt tctcaaaac 360

tgctctaagc aaagttccca aagtcctatt aacaact

397

<210> 13643  
<211> 502  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13643

tgtaatcgat tacacaaata ctgtaatcga ttaccagagc agattntctt ataataattct 60  
catcagtcac atctttttat ttggttcttg aatggccatc aaaggattat atatatgtga 120  
cttgagacac gaatttgcta agagtttttc agaacaaaaa ggtcttatcc tcttaaaaag 180  
caaaattggt tcatcctctt aaaaattcct tggccaaaac acttgtgatt caataaggaa 240  
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagattact tcttctttat 300  
tcagaanaaa gaattaagag accgaggggc tcttggtgta aagaaatcta aacacaaagg 360  
aaggattgtc cttgtgtggt tcagatcttg taataggctn ttacaagata gtggaactct 420  
caagcggggt gcttgtggac tggacgtang cacaagggtg tgactgaacc agtataaatc 480  
tgagtntgca ttctctcttc cc 502

<210> 13644  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13644

cttgaggttt ccaagtgcc aatcgtcttc ttctttagtc cagtcttctt ctggcttcta 60  
tccatcagtg ggctttcctt ctgtgtccag catcttggga tgttcccagc ctttgatgac 120  
agctttccag gttctgctat ccagtgattt gaggaaggcc accatccttg ctttccagta 180  
ttcatagttg gttccatcca gaattggtgg tctgttcact ggtcctcctt ctttctccat 240  
gttcatcaga atntatctcc ctaggtctca ctcaagtatt tcgagtgcct gctctgatac 300  
caattgaaat tctgatacca atgccagatg tcgtacagga tgtcacgaca tcacgcttca 360  
gaacatgcag attatctctg agtgtatgaa cagattaaac aagtaaataa cacaagagaa 420  
ttgtaaccga gttcgggtgca acctcaccta catc 454



<210> 13645  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13645

gtctgattga gtctgtgaat atatcgacac gctcganatt gaatgttgaa gctctgagca 60  
 aattcaaacy acaataaatt tttattcgga tgtctgatat tgtcccgtaa tataacgaga 120  
 cgctcgaagt tgaatgctga agctctgagc aaatacaaac gacaataaca ttttactcgg 180  
 atgtcggatt gagtcccgta atatatcgac acgctcgaaa ttgaatgttg aagctctgag 240  
 canattcaaa cgacaataac tttttactcg gatgtctgat tgagtcccggt aacatatcga 300  
 gagctcgaa gatgaatgtt gaagctctca gcacaatcaa acgacaataa ctatntactc 360  
 ggatgtctga ttgagtcccg tcatatatcg a 391

<210> 13646  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 13646

atgttcttaa gcaaaagcta tctattgccc tcatacttgc gttgccaac tttcaaaaat 60  
 cttttgaaat tgagtgtgat gcttcaaagtg ttgggattgg ggctgtgttg atgcaagaag 120  
 gtcattcaat ttcttatttt agtgaaaagt taagtgggcc tacccttaac tattcaactt 180  
 atgataagga gttgtatgtc ttagtacagg ctttgaaaac atggcaaacac tacctttatc 240  
 ccaaggaaat tgcattcat agtgaccatg agtccctcaa acatatcaag gggcaaggca 300  
 agcttaacaa aaggcatgcg aagtgggtgg aattcctaga gcaattccct tatgttatca 360  
 aacataa 367

<210> 13647  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13647

tgtgctcttt cacattngga atatgaatgc aacatataga tccatagacc cataggtgct 60  
ntgctgatgg cttcttcccg ttccaagctt caattggagt cttgtctttt acagacttag 120  
ttagacatct gttgagtatg taaacagcag tgtagactac ttcagcctag aatgtgttag 180  
gtagtccctt ctcttggagc atcaatctag ccatttccgt aactgtgoga ttctttctct 240  
cagacacttc attntgttga gaagaatatg cggcagtaag ttgtcgctca atgccttcat 300  
cctcaaaaaa tctttcaaac tcgcgagagg tgtactctnt gtcgcgatca cttcttagta 360  
cttttatccg ttgtccactt cgatttcagc aagggccttg aacttcttga atactccaga 420  
gacttctgat tattctttta gaaaatatac ccatgtcatt ctagagaatt catcaatgaa 480  
gagtatgaag tacct 495

<210> 13648  
<211> 507  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13648

tctaagggag tgggtatcct atttactaat aacagtttat aacagttcat ccaggctact 60  
attctatcca ctctntgcag tgtcttcatg gaccaaagtg gctgaaagct gaagttcttt 120  
tttggttagt ataggcttaa tttttcagtg caatctgtct tagtcttact gcttactctg 180  
attatcatta ttctatctaa tttatcagca acataaatac tggcaaacat gaagaatgaa 240  
tttctctgta tacctgtatg gtgggcagtt actgtatcca aaagtgtggt ggtagtataa 300  
ctattggatt gcagtcttat tcgtcttggc tcaacaacat ccaccgagct cttagaccaa 360  
aatgcanagg tagatgaatc gaatntctgc ataattcaat tagaanatgt tatattgaga 420  
ttgactacaa attaatctca aaatttcaca nagggaaaaca acaagcttac atcacatctt 480  
gttatgttct caattggata tattctc 507

<210> 13649  
<211> 483  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13649

gcttgtacct catcactttc ttccgaagct ntaacctcat tgtctctcac agtctttaga 60  
 tttgggagcc aatccaatcc ttgtgtccga actctcagcc acttatgata accgccgatg 120  
 atcccattac tgcttccccct aagctctctg tcctttcttc acaccgcac ccatgccttg 180  
 cgaactcctt ggagtaccct tgcgttgtgg tcaactgaaac cccgtgcat gaaaggcgtg 240  
 atgctttcat ctgatggcac tcctctcatg gggtagcaa gctgtcttat ggtgaggacg 300  
 ggattatatg tgtgccatct ctagatgatt tgaaagtca gatnttgag gaagcacata 360  
 aaagtcgtct tagtttccat ccaggaatga ctaagatgta ccaagatttg aagaagaagt 420  
 tttggtggca tggcatgaag aaagatgtag ccgaatatgt agcaagatgt tcgacatgtc 480  
 aaa 483

<210> 13650  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13650

tgtaatcgat tacacacata cagtaatcga ttaccagagc acattttcaa aaaatattct 60  
 caacagtcac atctttttat gtggttcttg aatggctatc aaaggcctat atatatatgt 120  
 gacttgagac acgaatttaa gaagagtttt tggagaacaa aaaggtctta tcctattaaa 180  
 aagcaaatcg tgttatctc ttacaaattc cttggccaaa ttacttgtga ttcaataagg 240  
 aattatttga gtgctcaa atgttcagtct atctctttca agagagattt cttcttttct 300  
 tcttcttcat tctgaaaagg gattaagaga ccgagggtct cctgttgtga aagaattcta 360  
 aacacaaagg aagggtgtc cttgtgtgtn tagaacttgt aaaaggaatn tacaagatag 420  
 tggaactctc aagcgggtt 439

<210> 13651  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13651

agaatcagac atccgtgtga agagatatgt gcattagaat atctcaagag ctttcgcagg 60

acaatttcca gcttctcgac atattatgcg cccgaatcgg acatccgtgt gagaagctat 120  
gaccatttga atatctcgag tgctttcgat gtagaatttc cagtgtgtcg atatattcta 180  
aacctgaatc ggacctccgt gtgaaaagtt atgactatnt gcataatcagg agagggtatcg 240  
atgtagaatt tcgagcgtat cgatatatta taagcctcaa tcggacatcc gtgtgagaag 300  
ttatgaccat tagaatttgt caagagct 328

<210> 13652  
<211> 490  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13652

cagactcana acagcanaac tcaagccata attcgaatga aaatagatcc atgacaagat 60  
agggtgctat aaccttttagc accgactaac taccataaag atcaagaaag aaagaccctc 120  
ttagcgcaac cttctagctt ccctttcaga ctcgagtagg gtgagaatgt ctccttctct 180  
cactggtcct ttaacattcc tcatgatgtg acggttctga tcatccagaa acttcactct 240  
aacctgggtc acctgtcctc tggatccagt acgaccatt actttgacaa caagtgcgtg 300  
cttcacctga gactccatcc tgctcaaaca caatcaaacc gttatgagat gaaagtggaa 360  
nacaaatgtg tttaatgaat caatgacaga taaatcagga ataacatctt ccaaagtcaa 420  
aaggactcaa accttaaata attagctctt caactttcaa ttntcacaga atcatcctaa 480  
cagcgaatga 490

<210> 13653  
<211> 497  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13653

ctaagcttat tctacacctg anaagaggat gagatggttg cacaaaagag atagctcctt 60  
gatcatgagg gagctaaca aaattttcat gcagatggac cttcttctac tagctctgac 120  
ttgcagtagc ctcttatccc tcttccattt ccacctagag caattccaaa caaaaaaatg 180  
gaagaagtgg aaaacgagat cttgaagacc ttcaggaaag tagaggtgaa catacctctg 240

ctagatacca tcaagcagat tccaagatat gccaggtttc taaaggagtt gtgcacccac 300  
 aaaaggaagc tcaaggtcaa tgaaaggatt agcatgggta gaaatgtgtc agcattgata 360  
 ggtaaattctg ttcctcacat tcttgagaaa tgtaggacc caggaacttt cagtatacct 420  
 tgtattattg ggaataataa atttgagaat gccatgctag atctangagc atcaattagt 480  
 gtcatgcctc tgtccat 497

<210> 13654  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13654

cctatntctc atacatgcat gacagtcacg ttgtattcaa ctattgcaac accaccggtg 60  
 atgtcataca catatgtcgt aagcacagca gaacccttg catatttgaa gatcccagta 120  
 cccccaacaa ttggcatttc tctaactttt ataaatgtag ggtttctgcc aagaatgctg 180  
 aggggtgctgc cattgtaaat gcccaaagtg aagagaaaat ttgtcaccat gagcaacca 240  
 ggctcatggt gtgaagccaa agcgtatatt ccctgagatc ttcccacaag cnttgaagtt 300  
 ggacttggtc cttcagttag agggtcattc atcatgtaag tagccccaaa accatgaatg 360  
 gaccccttan gaggcaaac agttttcata gcagttgggt gttccccctg tatgttggtta 420  
 tggaaataga agtggagttg ggtgaagttt tctttcacgg gttctgtgga tggat 475

<210> 13655  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13655

ataactnntt actcgatgtc tgattgagtc ccgtaatata tcgagacgct cgaactggaa 60  
 taccgaagct ctgagataat tcaaacgaca ataacttttt actcggatgt ctgattgagt 120  
 cccgtaatat atcgaaacgc tcgatattga atgggtgaagc tttagcaac ttcaaactac 180  
 aataactttt tactcggatg tctgattcag tcccgtata tatcgaaacg ctcgatattg 240  
 aatagtcgaa gcttgagcaa attcaaacga caataacttt ntactcggat gtctgattga 300

gtcccgtaat atatcgagac gctcgaactg gaataccgaa gctctgagat aattcaaacg 360  
acaantaact tttactctga tgtctgattg agtccgaata tatcg 405

<210> 13656  
<211> 392  
<212> DNA  
<213> Glycine max  
  
<400> 13656

gcttcggtct taatttcgag cgtctcgaca tattttatac tcaatcagac atctgagaaa 60  
acgtattgtc gttgaatttc tcagagattc ggcataccat ttcgagcgtg ttgatataatt 120  
acgggactca atcatacatc cgagtaaaaa agtgatggtc gtttgaatct gttcagagct 180  
tcggtattca atttcgaccg actcgatata ttacgggact gaatcagaca tccgacccaaa 240  
aagtttttgt cgtttgaata tgctcacagc ttcggtattc catttcgagc gtcttgatat 300  
atcaccggac tcaatcagac atccgagtta aaagttattg gcgtttgaat ttgctcaaag 360  
acctcacatt caatatcgag cgcttcgata ta 392

<210> 13657  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13657

aggacnctt tgagggccac caacaatttt cacctcacac ctccattgga agaggtgggt 60  
ttgggttggt ttacaagggc attctacctg atggctcaat ggttgagtg aaaaggcttg 120  
aagaatcata ttctcaagga gatgctttgt tctaaagcga ggtggagaat gttagcaact 180  
tgaagcaccg taatctggtg ccattaaaag ggtgttgtgt ggttgatgag gaggatgata 240  
accacaattt tgagtactga aggtatctag ttcatgaata tatgccaaat ggtagccttg 300  
aagaccatct cttttcaacc atattagaca accaatatac aaagaagtcc cttacttgga 360  
ctcaaaagaa aagcataatc ttggatgagg catatgctt 399

<210> 13658  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13658

agtgtccgag cgccaattcg tcttgttcta tactccagtc ttcttctggc ttcaattctt 60  
cagggggctc ttcttctgtg gccaacatct tgggatgttc ccagcctttg atgacagctc 120  
tgcatgctct gctatccagt gatctgacga aggccaccat tcttgctnta ccatattcat 180  
agttgcttcc atcgacaata ggaggtctgt tcactgggtcc gccttctttc tccatgttca 240  
tcataatcta tctgcctaga tctcactctg tgattacgag agcaggcttt gatccaatag 300  
agattctgat accatgggac agatgtcgca cagcatgtca cgacatcacg cttctaacat 360  
gcagatatat gt 372

<210> 13659  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13659

tgcaagcttc attggagctt gtaggcctaa gatctttcat ancattggat tcctttactt 60  
cttgaagat aaatgtcagc ggaatggaga ccgcaccaca gagaggagac gccacttnaa 120  
ggagaagatg agtctagaag aagctcacca ccataggagg ccatggataa gatcttggag 180  
gaagaaggat atgaatgaag ggagagggag agaacagcac gatattttgt gctcaaaagg 240  
agctctgaca tctgaagtta atattogaat gatcaaagtt gnaaaaaatg cacacacatg 300  
acctctattt atagcctaac tgtcacacaa aattggaggg aaattcaaac ttcacttgaa 360  
tctgatattg aatttgtgga gcctaactct ggagccaaaa tttctctaata tatgattagt 420  
gaa 423

<210> 13660  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 13660

agcttgcaat tgaacaacgg aagctctcga aaattcatat ggtcataact tttaactcgg 60  
aggtctgatt gaggcgcatt atatatccac acgctcgaaa ttgaacaatg ggagctcttg 120

agcaattcca atggtcataa cttttcactc ggaggtccaa ttcaggcgca taatatatcg 180  
agacgctcga aattgaacaa tggaagctct tgagcaattc aaatggcat aacttttcac 240  
tcggatgtcc gattcaggca cataatatat caggacgctc gaaattgaac aacggaagct 300  
ctcgagaaat tcaaattggc ataacttttc actcggaggt ccgattgagg cgcattatat 360  
tttcagacgc ttgaaattga acaaccgaag ctcttgag 398

<210> 13661  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13661

taacacgtat gtgatgcaat ccaaccccg c aagggcatng gatagataac tcctagtaga 60  
atgcgccaga gatgtaagag aaggccctan gggtcttatg agccttangg tagatttcgg 120  
acccatgggc taagtacgag cccacttatac tttgtaaata ttagattaag gtttcattat 180  
ttttgggcct tgtatttagg gctccataat gtaggtaggg taccctagaa atatangatt 240  
tttcagccct tgtattttag ggcacctaga ctacgttttg tattaggggt agttttgtaa 300  
tttcacatgc actaagtgga tatttgatgt gtgtggctgg aaataaattt aattgaattg 360  
gtagaagccc aatccaatta atatttagag ggggaggtga gcatttgctt actacacccc 420  
attgccatat catatagtca cactttgtgc atgtncctca tngctttcat gcctcatgac 480  
acctaagcac act 493

<210> 13662  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13662

tgtgtagtcc accatctntt catagtatat tactggtaat gtgtctacta tcattatcan 60  
tttttcttcg tcattgaggt gccacttgag ttgccaggtc tctccacctt tgggcgtatt 120  
ctttgaaaga tctgtgcccc tttttgcaca tgttctattg ttgcaccta tccggaacca 180  
tatcaaaatt gtactgatag tgccaatga aggcaaccat tangtccttc caagagtgga 240



ctcgagaagg ttccagggtta gtgtaccagg taacagctac cccagtaaga ttttcttaga 300  
 aggaatgtat cangagttcc tcattctttg cgcattgccc catctttcgc taatacatct 360  
 ttagatggtt cggtgggcaa gtagtcccct tgtacttgtc aaagtccatc accttgaact 420  
 tgata 425

<210> 13663  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13663

tgcaagcttc acatagctcc cactctcgta ctcttttta caccctattc attcggatag 60  
 agagtgaata atccaaagaa natcagcatc tatcatgatg tgcacaaatt tctgcaactt 120  
 catttgcatc actttcttgc aaaatgtgtg gaaatgctat tatttttttg gcatcttaat 180  
 tctgatttcc ttattgattt ggctaataagg tcattttaat acgttgatat tccagagatg 240  
 catgttagta gtaacttttc ccaaaaaatt ataattatta gagctatata caaatgaagt 300  
 tcacacctga agattaagct cattgtatag ggcctttact ttagcaacat tttctggatc 360  
 tggcttacca tagttctcct gcaaaccaca aaaaaatagt gacttattgc agtctaata 420  
 tggcagaaaa taaggaaaga aatangaat aataagacgc tcacttactt gtagaaatt 479

<210> 13664  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13664

agtaganaga gganacagac atggaacctt gtttttgtgt gttcttttca tgcttaagtt 60  
 gaaaaattaa aggaccattt cgttgctcaa tacgttcttg aagatcatcc cagattgctt 120  
 tggcagaaga acaatgtaag atactgactt gcatttcttt ggataaagaa ttaatgagcc 180  
 aggaagaaac gatactatca ttgcgatgcc acaaagcatg agtggagtga cccaaagcag 240  
 gtttaggaat tgaaccatca acaaaccat atttgttctt cccatgaaga gccatgcaca 300  
 ttgctttctt ccaagaattg tagttatcac cggtaagagg atgagaaact aaggcaatgc 360

caggatggtc ggaagaatga agaatgaagg ggtagaatc atcaatggca gccatggcca 420  
tgagataaa 429

<210> 13665  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13665

gaaaagctag taaatacttg tatattattc atttgaaca tgttggtata aaaaagtaac 60  
aacgataata aaattaatta aggcgtacc aacaagcttt ctcttgcttt gaaaagtcac 120  
taatcgtaat gaaaaataac aattaaacaa caattaataa aagagaagtc aagcttattg 180  
aaaagctagt aaatacttgg aaaatatcca tntgcaacat gttggagtaa aaaagtacca 240  
attatctcac taatgaaact tatatataaa aaacattaat aaattaatca acatgcacct 300  
ttcaataagc gataataaat taatcaaagc gtataactag agacatgttg acagtaaata 360  
ttaatcttca tctattattg atcttattta taaagaaact gtaatgaata atactatcat 420  
gttagaagtc gggtat 436

<210> 13666  
<211> 463  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13666

gtactctaga gtgctaagct gctaattaat attgttcatt caactgggtc acaatgaggt 60  
taatatcagt gttggaggaa cccgcgatga ttatatcatc tacataaatg agattaagca 120  
ggcagcaacc atgtttgttg aatacgagaa gagagggatc acacttggat tgttgaaaac 180  
caaaggagat gagagtattt gtcaaactct cataccaagc ccttggggct tgttgtaaac 240  
catatattgc cttgtgaagt ttgcatacaa gagtggattc accctgaata aagccttgag 300  
gtttttgcat gtagacatct tcatggagtt gccattaag aaaggcattg ttgacatcaa 360  
gttgaataag gcgccatttg gaagtaagag caatggtgag gacaattctc agtgtgattg 420  
gtttcaccac tggagagtan gtgtcactgt aatcttgacc ata 463

<210> 13667  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13667

agcttgngat gaaacagatg tgattcatca aaaatttctt ctctgctgag tagaactttc 60  
 ttttcggatg atgaccagat cctatagcct ctcaccccat caccataacc catgaacaga 120  
 ccctttcttg atctaggtac caactttcct tcattgacat gataataagc attgcagcca 180  
 aatactctta ggtttgagta gtttggtggt ttgccattcc aaatttcaat aggagtttta 240  
 agtcctatag cagtagaggg tgttctattg attagaaaac aagttgtatt gatagcttct 300  
 tccccaaaac ttctgctgag accagcatta tacaatagac atctttgtct ttccagaagt 360  
 gttttgttca ttcttttagc aactccactt ttctgaggag tgttactaac agtaagctgt 420  
 ct 422

<210> 13668  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13668

gagngcaag agacatgtta gagagatctc ttgantttgc atttgcaann acctnnggnt 60  
 ggctttccct gcttaaacad cttagaactt tgcccatgaa atccttatta ggaaatatct 120  
 ttccaatga tgcaagatga ataactatat gtgtaaatct cttttgcata tcttgtatga 180  
 tctcattttg attcattctg aaaagtcat attcatgtgt taggggtgtt attctagatc 240  
 tcttaacatc tgttggtcct tcatagggtta cttgtaatgt atcccatatt tcttttgcac 300  
 tcttacaatt tgagactcta aagtattcat ccattcctaa tgcagaggta attatatatt 360  
 tagcctttaa gttatattgt acccttntg tttcccttc atccactgt ttccataggtt 420  
 tttctatagt tgcatttcct actaccattg tggggatgta aggaccggtt tcaat 475

<210> 13669  
 <211> 449

<212> DNA  
<213> Glycine max

<400> 13669

agcttaacat gttgtgcttg gctactctca atgatttcat gttgatttct aaaggaaaaa 60  
ctacttcatg ctcgatggtc atccgaaata cggtaacaacc agttgctttg gtgggcatat 120  
ttcgacaagc ccataatgct tcttgtcata ttttcagatg atcttataaa ttcttcttaa 180  
ttatatcaat caagatctta ttggtagctt caactttctc atttgcttgt ttataataat 240  
gtgttgaatg tacaagcttg atgtcgaatt gttgtacgaa caaattcacc ttgtctccag 300  
taatcataat tccttggtca gatgtgatag actcacgtat gcggagcaat aaaataatgg 360  
tatgtttaat gaatctaaaa acaacttctt gagtcgcaat aaccaatggc ttagcttcca 420  
cccatcttgt aaaataatta gtggatact 449

<210> 13670  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13670

atgtctggat atactgtctt ctttccatgc tttagnngta ngaagctngn gnnnnnctca 60  
cagataggac atgcatgatg ccttttcgca ctgcctccac ttaaantntcc atattctaga 120  
aaatcattaa tagtacaaaa caccattgtg cgtaacctga acgtctgctg cacatttgca 180  
tcccacgcat ctacccttcc tccccacaat tgtttcaagt cttcgattaa cggcgtaaga 240  
tacacatcaa tatcattccc tggctgcctt ggatccgcga tcgtcataca caggataatg 300  
tatttacgca naatgcacaa ccatgtggga aatgtgaaat catcagtaaa taggcacgaa 360  
ctgtgggttg tgtaagcac cataagataa tctcatagaa caagagcagc cttagttctt 420  
gatcatccaa acttaataca acat 444

<210> 13671  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 13671

agcttctcac tgggatgtcc gattccggag cataatatat ctagacgctc gaaattgagc 60  
aacggaagct cttgagaaat tcaaattgtc ataactttcc acatggatgt ctgattaaga 120  
cgcataatat atcaagatgt tcgaaattga acaacgaaag ctctcgagaa attcaaatag 180  
tcataactct tcaactggag gaccgattca tgcgcataat atatcacgac ggtcgatata 240  
gaacaacgaa agttcttgat agattcaaat ggtcatatct tttaaccctg ataacctatt 300  
tagagacatt acatatag 318

<210> 13672  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13672

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agccccttaa aaaaagtgc ttgacaaaaa cagcccttaa aacatgagaa aaggaacaca 120  
atcacggttg gggattcata ggcaagttac cagcctttct tgttctgaag atcgaccagc 180  
gaaacagctt ttctttattc ttttaattgc aacatgcat cctctccatt ttccatggta 240  
cacagtccca aacgtaccag aacgcagctc tggcaactct tctagatatt cattctttat 300  
gaactgccat gtgcacttta natatatgtg ataaattaaa tgtcactaat cttatgaacg 360  
ataatctata atgtgatttg agaa 384

<210> 13673  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13673

tgttcacat cggaatctcg ttagacttct tggntgttgc gcatatgcc cgagagaatc 60  
ctagnttatg aatatatggc aaatagcagc cttgacacat tcttatttgg taactcactt 120  
caaccatcaa tggaataata tgttgaattt ttattgcctt ttcttctctt ctccacaatc 180  
ttacgtatat ataaaaacat gggaagcacg ttccaaaaaa ggttcctca attggaaaca 240  
acggtatgat atatatttgg gcacagcaag gggactagca tatctacatg aggaagtcca 300

tgtgtccatc attcataaag atataaagac cggtaatatc cttct

345

<210> 13674  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13674

agcttcttag tctcggtga tgaagatgaa ttcgtggcta cttcatgcac tcccctaattg 60  
acaatagcat cacttctggc actaaattgc tgggagtttg aagccatctt ctcaattaaa 120  
cttctagctt cagcaggggt catgtctaca agggctccac cactagcagc atctatcata 180  
cttctctcca tggtactgag tccttcataa aaatattgga ggagaagctg ctcagaaatc 240  
tggtggtgag gacaactggc acatagtttc ttaaattctt cccagtattc atataagctc 300  
tctccactga gttgcctaata tcctgaaata tctttcttga tggccatggg cctggaagca 360  
agggaaattn tttctaagaa tactctcttg aggtcatccc aacttatgat a 411

<210> 13675  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13675

ataccttnn gtatgagtat gcttttagcaa ctattcttgt tttgttactt acaactntac 60  
cagtttcatc cagtttggtg ggaaagaccc acttcgctcc tacaactttt tttccttng 120  
gcaattcaac taacttccaa acatcattct tctgaaactg atcaagntct gtttgcatg 180  
ctgtaaccca tttgtcatct tccattgcat caacaatgtg gttaggtgcc attttagaga 240  
ccagcgcagg aagcgcttgt gttttgagtg atgatcttgt ttgaacatga tctactagat 300  
caccaatgat ttgactatct gggtgattta ttctcatgat gcatccagtg ggttactcga 360  
ccgtcttctg aactatctgt tgagaggaca ctttctatcc tgg 403

<210> 13676  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13676

tgtctctgat caaacacatt gtgctgtaca gaaagtttct ttataatang aattctcccc 60  
anaaatatta nggttgtcaa gactatgaag tcaacttcat tcaactntgtt gccagagtca 120  
ctggtatctt ccattcacac agatgttcaa aaaggattgg ttccttgta tctttgtgcc 180  
actgtgggaa caacttcaac cactgcaatt gatccattan gaccactgtg caagggtggca 240  
aaagaatatg gcatgtgggt ccatgttgat gctgcttatg ctggaagtgc atgcatttgt 300  
cctgagttca gacacttgat tgatggagtt gaggggtgcaa actctntcag tctcaatgct 360  
cacaagtggt ttctcactaa cttagaattg tgctgtcttt ggggtgaagga tccagcttct 420  
gtgattaagt ccctatcaac aaattcagtg tacttagaaa acagtgttc tgattc 476

<210> 13677  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13677

gctntgaatg cactattcaa tggagttgac ttgatttctt cagactgatc aacacttgca 60  
cagtgtccaa agatgcatgg gagatcctga aaatcactca tgaaggaacc tccaaagtga 120  
atatttccag attgcaactc ttggctacaa aattcgaaaa tctgaagatg aaggaggaag 180  
agtgtgttca tgacttccac atgaacattc ttgaaattgc caatgcctgc actgccttgg 240  
gagagaggat aacagatgaa aagctggtga gaaagatcct cagatccttg cctaagagat 300  
ttgacatgaa agtcaactgca atagaggagg cccaagacat ttgcaacatg agagtatatg 360  
aactcattgg ttctcttcac acctttgagc tatgactctc gga 403

<210> 13678  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13678

agcttatgct gcanacatat acaatagacc tcctctacct caatagcaaa atgaaccaca 60  
acagaacaat tatgacctct ctagcaacag atagaatccc ggatggagga atcacccata 120

tctcagatgg tctagtcttc aacaacaaca acaacaacct gctccttcct tccaaaatgc 180  
 tgttgggtcca agtagaccat acattcctcc tccaatgcaa taacagcaac agcagcaaca 240  
 accctagaaa cagcaaacag ttgaggccca gaatcctgac agattacctt ctcaatctgt 300  
 ccagaatcct aagaatgtga gtgccattac attgaggttg tganagcagt atcaaggacc 360  
 tcaaccagta tcatcttct ca 382

<210> 13679  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13679

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 attggatata tgtttttcat gggaaataca accttcactt ggatgtcaaa aaagtagtcg 120  
 atatatagtc attcttttga cttgtaagcc aaaatacgta gcagttgctt catgcatttg 180  
 tcatgcaata tggctcaaga atttgttaaa agagttgggc atgtcacaag aagagttgac 240  
 caagatcntt gtcgataatt aataagtcag tcattgctct agcaaagaat ccaatgttcc 300  
 atgatcgaag caaacatatt gatacccggt accactacat aaaggagagc acaacaagaa 360  
 aggatgtaca tgcaggatat gtgaagtctc aagaccaagt agttgacatc ttcaccaagc 420  
 cgctcaagca agaagactnt atcaagttaa aaagcttact tggaatgata aatcaag 477

<210> 13680  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13680

gcttaatgaa ttactgttgt attgaaaaat gtcttttgag ataacacgtt accaaagact 60  
 cattacgagg caaagaagat attatgtcct gttggaatgg aatacaaaaa aatacatgct 120  
 tgccgtaatg aatgcatttt gtatagacat gagtttgctg aattgtgcaa ctaccctaca 180  
 tgtgggggtgt cacgctacaa agtgggttct ggcgcttcca gtgaagctgg atccacatac 240  
 attgatcggc cagcaaaagt gtgttggtat cttccagtaa taccaagggt taagcgattg 300



ttngctaagc cagaagatgc gaagaaccta acatggcatg ctgatggtag gaccaaagat 360  
 ggatngctcc gtcacactgc tgattcttct cagtggaga aagttgatc 409

<210> 13681  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13681

tacactacga acacacaccc tatctgtac ttctttactc catcagntcc cactctaaaa 60  
 ctactctctc tccttgcgac tatcgactct aactgggctg acaagaatgg gtcagacttc 120  
 tgacccccac ggatctcgct caagagttcg aaggtgactc tcaacatacc caacttaatg 180  
 ctactagagg tgatctcaca tgccaaactc atgtctctaa actgctctaa gaggtccagc 240  
 tctgtaacca tcaaagcaga catttgaagg gatttcctac ttaatgcac cgctactaca 300  
 cttgctatac ctgagtgaag gctaagctca aaatcgtgat ccttaaggaa ctctaaccat 360  
 cttctttgcc tcatggtatg ctctttttga tcaacaaat atgtaaggct cttat 415

<210> 13682  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<400> 13682

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 tatctttggg caagtttgag gggattatac agaaacaaac agaagaggat tagagaaaca 120  
 aatccaatgg cagtgcatt taggtaattg agaataaaat ccatccgagt taattaagtt 180  
 tgtgaattgt aaggcctgaa gagatatgca ataatgctgt ccttaaatag attattcatt 240  
 gatatgtaaa gaatgaaaa gtcaagtga tggcaagggg tgaagaggac gtacattaaa 300  
 atttagggct ctaagtcaat attaataaga caagataagt ttataggata agaattgaac 360  
 ttgattttct tgcacatatt tgatgaagag gaatgaggag tttaagtga tttaagctcc 420  
 taaacaaaaa ttagtcttat aattaattag tctaaaaaaa taaaacttgt aaattcttta 480  
 aagattta 488

<210> 13683  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 13683

tctagactct ttctgactta tctaaaactt ttgagcgaga atgtgatgcc tctagagtgt 60  
 gagttggagc tgtattgata caacgtgggc accctattgc ttattttagt gaaaaacttt 120  
 atagtccac cctcaactac accacctatg ataaagagct gtatgcctta ataagagccc 180  
 ttcacacttg ggaacattac cttgtttcca aggaatttgt cattcatagt gatcatcaat 240  
 cacttaagta cattagaggg caaagcaagt taaacaat 278

<210> 13684  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13684

gctatgctga nacattacaa tagacctcct catcctttta tcaaatgaa ccacaacaga 60  
 acaattatga cctctctagc aacacatcca atcccggatg gaggaatcac cctaattctca 120  
 gatggtctag tcctcaacaa caacaacaac aacctgctcc ttccttccaa aatgctgttg 180  
 gtccaagtag accatacatt cctcctccaa tgcaataaca gcaacagcag caacaaccct 240  
 agaaacagca aacagttgag gccagaatc ctgacagatt accttctcaa tctgtccaga 300  
 atcctaaaaa tgtgagtgcc attacattga gggtgggaaa gcagtatcaa ggacctcaac 360  
 cagtagcatc ttcctcatcc gcaaatgaac ctgccaact ttactgtact ctagaanaag 420  
 aggatga 427

<210> 13685  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13685

tgctgataat aagggaacaa aactcaccaa tctagtccat atcttgacaa atataaggcc 60

taatgcccag tcttgataaa ggaggaatac tggactttca tccactggaa ctctcattgg 120  
 cacaatgacc aaaagctcaa agagaagccc aataagcact gggataacaa atatctgtga 180  
 ccaaaaaaag atggattaat cacttaaaaag caaatacaga tctatgcaaa atcaaaggg 240  
 cagccttggt aacatgatca gcaagaggaa tcctccttac ccatatagac agaagtgcag 300  
 aactcttcac aagaatgcca caccacttcc ataattggcc aaacaaaacc gaagatctcc 360  
 tttttcttat tngctcaatt gagtatctaa ctccagcaac agcagtccag atcacatagc 420  
 ttccaatgat aaatgcatac 440

<210> 13686  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 13686

agcttgaggg acaacttgat gccttgggtct ttctttaact cagcttgcca tgaatcagag 60  
 atctgcatct acacctgttg cagagctcg tggctatat tcttctacaa atcatgatac 120  
 agatctctgt ccttctttgc aacaatctgg agtcaatgag caacctgaag cttatgctgc 180  
 aaacatttat aatagaccct cttagtagca aaaccaacaa caatataata attatgatct 240  
 ttcaagcaac agatataatc cagggttgaa gaatcatcca aatctgagat gggcaagtct 300  
 tccacaacaa caacagcctg tcccttcttt ccagaatgct gctggttcaa gcaggccata 360  
 tgttctctct ccaatgcagc agc 383

<210> 13687  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13687

ngatgatgct tcatacatct canaactctt cttaggaag ttgtgagact ccatggttng 60  
 cctaggacca tagtgtcaga tagagatgct tagttcctta gccacttctg gaaaacctta 120  
 cgggccaagc taggaactaa gtttcttttc tctgctactt gccatccaca aactgatggg 180  
 caaacagagg ttgtgaatag gtctatatcc acccttataa gggcttttct gaaaggcaac 240  
 cataagtctt gggatgagta tcttctcat gtagaattct cctataacag ggggttcata 300

gaaccaccaa gcaatccact tttgaggttt tctatgggtt caatcctcta acacccttag 360  
acctaattcc tctcccactt gacacttctt ntatacataa agaagaggaa tctatgtcac 420  
agtttgtaaa gaagttgctt gagatgggta tgaaccacat agagaac 467

<210> 13688  
<211> 452  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13688

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tgaccaaadc ttcaatgcca taaccatgaa tcatctattg taactctcat ggcaatgcca 120  
gtattagtag tataacttaaa gcttattgga aaaaacttat atttcctttc tccattttta 180  
cattggcaat ctcttggcct ttgttatttn tatcatagat aatgcacgta tcttcttcaa 240  
ggtgaagata atagcctttc tccatcattt agccaatgct caagagattt tctttatgat 300  
ctggaactag taagacattt ttttatgac tctttacctt ctttgtctcc accatgacag 360  
agccttttcc tcttgactct accatgggtgt catattccat ttgaactttg actttgacag 420  
tgctgtcaat ttcctaaaaa tgctccataa tt 452

<210> 13689  
<211> 334  
<212> DNA  
<213> Glycine max  
<400> 13689

gctctccaga cattcaaatt ctcatatact ttcacactgg aacaccgatt catgcgcata 60  
atatatcgag actctcgaca ttgaacaacg aaagctctct atatattcaa atggtcataa 120  
ctaatacacac agaagtccga ttcacgcgca tattctatgg agacgctcct aattgaacaa 180  
cggacgctct caagaaattt aaatggcata acttgacacac ggaagaccga acacgcgcat 240  
atatacagag acctcaaatt aacaacggag ctctcgaaat taaacggcat acgtataacg 300  
gagaccatta cgccctataa ccagacgctc aaat 334

<210> 13690

<211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13690

atgaaccttg tatccctgtc agatacaata ctatgaggaa ttccatgcaa ccttactact 60  
 tgcaagacat acaactccac taacttattc attctatacc tcatattcac tgtgatcaaa 120  
 tgagcagatt tgggtgagtcg atctactatg acccacacgg aactttgccc accactagtc 180  
 ttgagtggac catagaccaa atccatatat atgctcttcc atgcgcattc cggaatctgc 240  
 tatggcgtca attctcccca tggtcgtttg agcgtcaacc atatccttct gacatgacac 300  
 acatcttgct acatattacg ctacatcttt cttgatgcca tgccaccaan aacttctctt 360  
 atatcttgga catc 374

<210> 13691  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 13691

actgatgaag atgaattctt tgctacttca ttctctctc taatgacaat agcatcatta 60  
 ttggcactga attcctgcga gttggatgcc atcttatcaa tttaaatttat ggcttcagca 120  
 cgggtcatgt ctccaagggc tccaccactg gcagcatcta tcatacttct ctccatgttg 180  
 ctgagtcctt cataaaaata ttggaggaga aactgctctg aaatctgggtg gtgagggaaa 240  
 ctagcacata attttttaaa tctctcccaa tattcatata ggctctctcc actaaattgt 300  
 ctaatgcctg aaatatctct tttgatggtc gtggctctgg aagcacggaa aactatttct 360  
 aataatactc tgttgaggtc atcccatctc gtgatggacc ctggagcaaa ggtatataac 420  
 cagt 424

<210> 13692  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13692

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agaatttgct acgatcttcg attttaaatt tcgagcgtct caacaagtta cgggactcaa 120  
tctaacttcc gagtgaaaag ttattgtcga tcgaatttgc tacgagcttc gattttaaat 180  
ttcgagcgtc tcgatatatt acaggactca atcggacttc cgagtgaaaa gttattgtcg 240  
ttcgaatatg ctacgagctt cggtttttaa tttcgagcgt ctcgatatat tacgggactc 300  
aatcggactt tcgagtgaag agttattgtc gttcgaattt gctacgagct tcggttntaa 360  
atttcgaaca tctcgatata ttaagcgact caatcgga 398

<210> 13693  
<211> 451  
<212> DNA  
<213> Glycine max

<400> 13693  
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gtttctctcc catgtttcag ttgtgtgtaa cttgtatttt cttcacacat ggggcatgcg 120  
tgatgacctt taacactgta accgctgaga ttcccatatg ctgggaagtc attaatggta 180  
caaaaaagca ttgcacgcat ttcaaagtgc tccttgcgaa acgcatcaaa cactacaacc 240  
ccctcgctcc acaactttct cagatcttca accaacggac ttagataaac atcaatgtca 300  
tttctgggct gtcttgggcc cgatatcatc atagacaaca tcatgtattt tcgcttcatg 360  
cacaaccaat gaggccaaat gttaaattact tgcagaactg gccatgaact gtgttgagtg 420  
cttaagggtgc catatggatt cattccatca c 451

<210> 13694  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13694

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atctacgata ccagaataac tctgatggta gtaatttta caactggaga gaatatctct 120  
nnnnnacaat tccttgtttc tgctgaaacc ctttactac aagtctcgcc ttgtatcttt 180  
ntctaccgtc agattcttcc tttagcctat agaccactt attttgtaac gctttctttt 240

cttctagcaa tttagttaaa gaccatgtct tattcttctt aaggagggtc atctcatcta 300  
 tcattgctag ctcccactca atagagtcac tcccctgcat agcctcactg aaatattatg 360  
 gctcaccagc atcagttaac aacatataat gcaatgaagg ggaataccta tctggtggtg 420  
 ctagaattct 430

<210> 13695  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13695

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 aacaattatg acctctccag caacagatac aatcccggat ggaggaatca ccctaattctc 120  
 agatgggtcta gccctcaaca acaacaacag cagcctgctc ctctctttca aaatgatgct 180  
 ggctaagca agccatacat tcctccacca atccaacaac agcaacagcc ccagaaacaa 240  
 caaacagttg aggctcctcc gcaaccttcc ctgaagaac ttgtgaggca aatgactatg 300  
 cagaacatgt agtttcaaca agagaacaga gcctccattc agagcttaac tcgccagatg 360  
 ggacaattgg ctacacaatt aaatcaacaa cagtcccaga attcttgaca ag 412

<210> 13696  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13696

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 gtagatgaag gaattgtagt tgcttatcga gttccaaatg cttgggttcaa gcatggagta 120  
 catgattatg agcatgagaa atagtgggtca aattatcacc acaaagttca ggaatagtgt 180  
 gaggaatttt cagcttaaac aacaaggctc gaaatcgttg gacctctaaa gtacctggag 240  
 caagggtcca ctacttagct tgagtactgc ttgaaccagc aatgacagtt tggtttttgg 300  
 accaccaaga gaccatgctt ggctcctagaa agataaaagc attgaatgta gacctcctgt 360  
 cattaggatc cgaggccgaa tgtacatcac aataggcttg aagaataaaa gagaatgaga 420

gggagcnaca agaacatgaa gtctcccatt tcaact

455

<210> 13697  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13697

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aaagttatct agtttcttag tctctcatgg gtttcagcaa tctaactcag accaatctct 120  
cttcttaaaa ctactaagt cagtcactac catactcttg gtgtacgtag atgatatcat 180  
actcacgggtg aacagtatac tggaaataca agatatcacc accctcctgg atcaggaatt 240  
caaaataaaa gaccttggcg acttgaagtt ctttctggga ctcgagattg cccgcaccac 300  
tgatggaatt catttatgcc aacgaaagta tgccttagac attntattng attcaggtat 360  
gctaggttgc aagccacact cgacacccat ggattattcc atgaagttac aaatgaactc 420  
aggcaactct ctt 433

<210> 13698  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13698

cgagacatta tatattaata ctagactcaa tatcactgag actcgccata attctatatt 60  
aattgccata tatatgttac tatatatnt acctttctaa atttatatat gaatttaac 120  
agttgtaata ataagccaat gtcgattaat agttaattta tgtaatatat gtctaatttt 180  
atttaattaa gatgtcagaa atactttttt gcaaatgaaa aaacactata tctgaaaatt 240  
aatccaagaa tactgtaaat attatgaact caaacagaat tgttttatat ataaaaaaaa 300  
aactgtgatt ntaatagtag ttaatccatc atatgatgca tataatctatg aaactacatg 360  
aatatctgca cgtatctata aactctaatt aaact 395

<210> 13699  
<211> 457



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13699

agcttaaggg tttggaataa ttgttctact tcttcaatgt tcaagtcttc tttatatagc 60  
ttgcccccca acttatnntg gggnggatac acctaagaag aatggctaga tgtttgtgat 120  
gaagcaagaa ttgggccggg ttgacaccac cctacactcc acaacacaat gggtttagcag 180  
aaaggaagaa tagaaaaatt atgaatgcgg ttagggagaat actcaaatgc aaggatctgc 240  
cacaaaactt gtggagtgga gctgcttcca ctgatgtgta tgtgctgaat aaaagtgcta 300  
caaaaagact aaatgggtgtg actctagaag aagcttggtc aagcatcaaa cccaatgtga 360  
agcatttgag aatttttggg gctatntgct acaaacacat tactagctag ttgagacaga 420  
aactggatga cacaggtgaa ttgatggat ttcttgg 457

<210> 13700  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 13700

taaggctgag cgtgatagag gaatcacaaat ttatattgcc ttgtggaagt ttgaaaccac 60  
caagtactat tgcacagtca ttgatgcccc tggacacatg gatttcatca agaacatgat 120  
cactgggaca tcccaagctg actgtgctgt tcttatcatt gattccacta ctggttggtt 180  
tgaagctgga atttcaaagg atggacagac tegtgaacat gctctgcttt cattcaccct 240  
tggtgtgaaa cagatgattt gttgctgtaa caaggtaa at tatgtgctgt aatttaaggc 300  
ccttatgtct cctttacatc acacaatatc ttcattcctt ttgtgtgttc atatgagatt 360  
aaatagtgtt ctcttctcat tttatacaga tggatgctac t 401

<210> 13701  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 13701

cttgaatgct ctattcaatg gagttgacaa gaatatcttc agactgatca acacttgac 60

agtggccaag gatgcgtggg agatcctgaa aaccactcat gaatgaacct ccaaggtaaa 120  
 gatgtccaga ctgcaactat tggctacaaa attcgaaaat ctgaagatga aggaggaaga 180  
 gtgtattcat gacttccaca tgaacattct tgaaattgcc aatgcttgca ctgccttggg 240  
 agagaagatg acagatgaaa agctggtgag aaagatcctc agatccttgc ctaagagatt 300  
 tgacatgaaa gtcactgcaa tagaggaggc ccaagacatt tgcaacatga gagtggatga 360  
 actcattggt tcccttcaaa cctttgagct aggactctcg gat 403

<210> 13702  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13702

ctttgaatct atgcttggtta tntgatcact ntgtatagta tgacgcacct agttgctcat 60  
 gatcctgtga atntaaataa aacaagcgca agctcggaag gtagtcatac ctcacaaaat 120  
 atatatttgt atgtttaggt agtgaaaata ccttaaatat gcatgtatgt aaaaaaaaaa 180  
 aaaaacactt cacaaaatat atatatgtat gtttaggtag aaagatacct tagatatgca 240  
 tgtatgtaaa caaaaaatac ttcacaaaat atatatatgt atgtttaggt agaaagatac 300  
 cttgaatatg catgtatata gcaaaaaatat ctcacaaaac atatatgttt aggtagcaag 360  
 ataccttggg cacgcatgta tatggcaaaa tacctcacan aatatacgta tgtttatggt 420  
 agcaaatac 429

<210> 13703  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13703

agcttccatg agtcangcaa aggagatggc ttgaccctgt cctttgagat ggtcatgatg 60  
 gcacctetca cacnnatgtc ccgctatgct tataatatat cgatacgctc taaattaaac 120  
 atctaaaact ctcgctnnnt caaatggaca taatatttca tacggatgtc cgattcaggc 180  
 gcatcatatg ttgagaagct tgaaattgaa caacggaagc ctatgagaaa ttcaaattggt 240

cataacttta ccacggatgt ccgattctgg cttatcacat atcatgacac tctaaattga 300  
acaatggaag ctcttgagaa ttcaaagggt cataactttt acaccgatgt tatattaagg 360  
cgca 364

<210> 13704  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 13704

tcaacatcag accacttcca ggtgctggaa ctacttcaca tggacttgat ggggcctatg 60  
caagttgaaa gccttgagg aaagaggtat gcctatgttg ttgtggatga tatctccaga 120  
tttacctggg tcaactttat cagagagaaa tcagacacct ttgaagtatt caaagagttg 180  
agtctaagac ttcaaagaga aaaagactgt gtcacaaaga gaattaggag tgaccatggc 240  
agagagtttg aaaacagcaa gtttactgaa ttctgcacat ctgaaggcat cactcatgag 300  
ttctctgcag ccattacacc acaacaaaat ggcatagttg aaaggaaaaa t 351

<210> 13705  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13705

cagcttatcc ttatggcttg cctccggact tcaactcccc taccgccctc ccnccctccc 60  
attattggac atcgctgat atgttatgac catttgtatt tgtctagagc ttccgttgan 120  
naannnaagc gtctacatgt attatgtccc cgaatcggac atccgagtga aaactgatga 180  
ccattcgaat ttctcgacag ctccgttgt tcaattttga gcgtctagat gagttatttt 240  
cccgaatcgg acatccgtgt gaaatgttat gaccattcga atttctgcag agcttatggt 300  
gttaaatttc gagcgtctcg atatattatg tcccgaatc gaacatccta gtgaaatggt 360  
atgaccactt gtatttctcg agagctttcg ttgttcaatn tcgagcgtct cgatgatata 420  
tgttcc 426

<210> 13706  
<211> 430

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13706

agctggaaat tgaacaactg tagctcttga gaaattaaat ggtcactc ccttctcact 60  
cntatgtcca ttcattgcga tcacatatag agacgctaaa aaatgaacaa cggaggctct 120  
cctagggttaa aatgggtcata agttttcaca ctgatgtccg atacaggctt atgttatatc 180  
gagacgctca aatataaaca tcgaaagctc tcgagaaatt caaatgggtca taacttttca 240  
ctcggatgtc cgattcaggc gcatnanata tacagacgct cggaaatgaa taaaggaagc 300  
tcttgagaaa tacagatggt cataactttt tacttgagg tccgattcat gcttataata 360  
tatcgagact cttgaaatta aacatcgga gctcttgaga aattaaatgg tcataatctt 420  
tcacacggat 430

<210> 13707  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 13707

gcagctgcat ttgaatttta ccatcaaatt ctcaataata catgttcctt ccttcaaaat 60  
tgctatgtga gaaccatgaa gggagagaag tcgaacttcc agatcagagc atctttcttt 120  
tagccaaaca cgatacggat tgtgatagaa acagcataaa ttgtgtagtt cttcatcctc 180  
tggaagatag ccctgcttgt caacacagca ctcaaatca cactgagtcc gggctccgtc 240  
aagacaatgt cagaggcact ccttgctgctc tcggttgcac cataactgc aatgccaatg 300  
tctgctttct tcaatgctgg tgcacgttc acaccatctt cggtcattcc aacaatgggtg 360  
attctatcct ggaacctctt cacaatctca tacttatgct ctgcacatgt agaaaatctc 420  
actcagtttt cttattaacc ttat 444

<210> 13708  
<211> 441  
<212> DNA  
<213> Glycine max

<400> 13708

gctctttcaa ctgcacaagg ctcttaatat ttgaagagta ttcttgtgga atctcttacc 60  
 cgacgaagac actgacaaaa acttatcttc tccttattgg acaaagtatg gcaagctggg 120  
 ggcaagtaaa ttctcttccc attatacctt ggatgcaact gtgatcatat gcccatatca 180  
 tctagatctt gacgggtatt gaagccgtgc ttcgtcttgc cttaaagtgt aaggagctgt 240  
 ccaatcacac tgtcacaaac atatttcccc acatgcataa catcaatata atgtctaacg 300  
 tctagatcag accagttcag aagatctaag aatatgaacc tcttcttcca tatgcaactc 360  
 ttacttttat ccttcttttg ggtctttcga aattcagtat tcaggtattg aaccgctca 420  
 tatacctgct caccagtcaa c 441

<210> 13709  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13709

agcttgtcgt cgagatcacc aaaagcagtt gtggcaaaac gagactccaa agcctggagg 60  
 agnccncccc cctncttttg cttgatttgt ttggtgtaag gcatattaga tcntgtctgt 120  
 gctattatgt gcgtatttan naaattcttc aactgaaact atatgttcca agtactctat 180  
 ctacaatata ccaaaagagc atttagacaa cttagcaaac ataacatttt ctttcaacac 240  
 tgtcgaaaca acctatagat ggcataagtg ttcatgccat gtggaactat ataccaatat 300  
 atgatgaaaa aacactaaca catatttctt taaagcatgt tggaaagtat ggttcacaaa 360  
 cattgaatag aagccggagc attggttaaa ccatatggca ttacaaccac tcataat 417

<210> 13710  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <400> 13710

acaccactca gatttccata tcgggaaagt cattaatggt acagaaaagc attgcatgca 60  
 tttcaaaagt ctcttggaa atgcatcaaa cactaaaacc cctcatccc ataactttct 120  
 caggtcttca atcaacagac ttagataaac atcaatgtga tttctgact gtcttgggcc 180  
 cgatatcatc atagacaaca tcatgtattt tcgcttcata cacaacctat gaggcaaact 240

ggaaattact agtagaactg gccataaact gtgttgagtg cttaaattgc catacggagt 300  
cattccatca ctg 313

<210> 13711  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13711

gcttgtgggg acagtaaaga aagaccattc tctggaatac acaatgtcag gcaaaaatat 60  
tagcagaaca aggagaaaaa ttgcacctat aaggattacg cgagcaatag ccatgggtgta 120  
agagaaggaa tataagaaga ggaggtagag gcctgtgaca agggcaagga tgttgaggca 180  
gagaaaaacc gatgtatcgc gctgaatggg gtcaacagaa tgtgggttgag gctgtgggtg 240  
attgagaatt gggatgagta ctagtccaga aattagcaca ggaacaatgg cattgagtaa 300  
tagatagaca gtgtcatcat tngtgtttat tgcattggca atgagagtgt acaaagctgc 360  
actcacacca ttgaaactaa tgctcaagga taatgcaagg gaacgggttg cgggaaaatg 420  
tctgatg 427

<210> 13712  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13712

gagttntccg actatgctct tgtgtgggtg aacaagctac aaaatgagag agcaagatat 60  
gaagagccaa tggttgatac atggatggag atgaaaaaga tcatgatgaa gcggtatgtg 120  
ccggctagtt actcaagga cttgaaattc aagctccaaa aactaaccca aggcaacaag 180  
gggggttgagg agtatttcaa ggaaatggat gtgctcatga atcaagcaaa tattgaagaa 240  
gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat ccgtgatatt 300  
gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat ccaagtggag 360  
caacaattaa aaaggaaggg agtggctaag aggagtttta cca 403

<210> 13713  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13713

catgcaagct ngaggataga gacttcttaa gctatttata ttctctctta gagaggctta 60  
 ctcaagccaa accccttacc ttcttgataa cagataagct gattaacacc agttgtgatg 120  
 gatgcaaccc ctattggtnt aaanttaggg gatagtagct ctgatgttcc caagaactcg 180  
 acctttaaga gagctgacat ggtgtttgtt actatctggt ctgctgcccc tcgtaatgac 240  
 cttatgactg aatgtacatt tttctggtg gaattaatcc aaggaaagga tatgtgggtt 300  
 cctgcttatg atgaagatga tttttgctg cgctataagt ggtcaaaacc tttcagactc 360  
 agtttacata gtaaagctac tcatataatg 390

<210> 13714  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13714

caaaaacttt gtcacccctc tgtaagatag caatgggaat aaagacatca cattctttat 60  
 tcatcttacg aataaagaaa actaaattat atttgatggt caaaaaagga aattatcaac 120  
 atgccttaag atacaatgta aggcgaagtt ctcttggaat cagcttctca ggatctgtct 180  
 cctcagatat tgtatatgag ctaacatntg cctctacttc ccaaacatat tgcttatcgg 240  
 attctggact ctttggtgag acaaccacct tcatacaacc aaaaattata taaataccag 300  
 atgacacaga tagtactaca gcatcacatt tacttttacc aaaatgcata cccgat 356

<210> 13715  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 13715

gaattctact ctaataatth ccatgagtgc tcacgtacat gccaatatta caattcatgc 60  
 atagatatca tgaagaacta tataatcacc tgatcatagat attactctct tgaactatta 120

aatatataat gagagattca cttgcttcac tccaagagta taacagcatt gccattcgt 180  
attatttatc tttctataaa tctaattgatg aagactagtt acttattaaa taataaaaat 240  
aaaagataac tctaacagaa ttatctttgg aataagtgga tctctcctct ctttaataa 300  
attagcttaa ttgtagttgt gtagttctta ctttatgtct attcataaaa cttagtctaa 360  
ttgttgata tattctgttg tggaccggaa tcacatggaa t 401

<210> 13716  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 13716

acaacaacag cttatcctta ctttctagaa tgctgctggt tcaagcaagc catatgttcc 60  
ttctcataca aaacaacagt cacaaaaaag acaacaaca attgatgctc ctctcaacc 120  
ttacttataa gagttaacga tgcaaatgac catctcaaat atgcaatttc agcaagagac 180  
aagagcctcc attcatagtc taacacataa aatggggcat atggctactc agatgaacca 240  
agctcaatcc aaattctgac aaatt 265

<210> 13717  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 13717

gcgtctcgag atattatattc ctggaatcga acatccgagt gagatgttat gaccattcga 60  
atatctcgag agcttccgat gggcaatttt gagcgtctag atatattatg tccccgaatc 120  
ggacatccga gtgagaagtt atgaccattc gaatttctcg agagcttccg ttgttcaatt 180  
tcgagcgtct agatgagttt tgtccccgaa tcgaacattc gtgtgaaaag ttatgaccat 240  
tcaaatttct cgagagcttt cgttgctcaa tttcgagcgt ctggatatat tatgtccccg 300  
aatcgaacat tcgagtgaag ttgttatgacc at 332

<210> 13718  
<211> 486  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<400> 13718

ntcactctnt gaacanatac ccctcagcca aatagaatcc atcttgtgtc cttttccac 60  
aactctcgta aatgggagag aaatattcat ctaaagcata caagtccta atattatcaa 120  
atcttaaaat ttgagctcct aaggagaaaa acaatgtgtg tctcctagag aaggcatcag 180  
ctaccacatt tgtttttccc tttttgtatt tgataacata tggaaattgc tctatgtact 240  
ctaccattt tgcattgctc ttgtttaact tgctttgccc tctaattgtac ttaagtgtatt 300  
gatgatcact atgaatgaca aattccttgg aaacaaggta atgttcccat gtctggaggg 360  
ctcttattaa ggcataaagt tctttatcat acgtagggtg gttgatggtg gcactgtgaa 420  
gcttttact aaaataagca atagggtgcc cacctttgta caatacatgc ttaacttcca 480  
ctcttg 486

<210> 13719  
<211> 471  
<212> DNA  
<213> Glycine max

<400> 13719

agatggcctc agcatattcc ttatctccag aatgtgaatt ctatcaatag acctccaatc 60  
tttaatggag agggttacca ctactagaaa acccgatgc atatctttat cgatgcaata 120  
gatctaaata tctgggaagc catagaaata gggccttata taccaccac agtataaaga 180  
gtttcaatag atggtagttc atcaagtgt agcataacca tagataaacc tagagataga 240  
tgggtctatag aggatagaaa acgagtacaa tacaacttaa aagccagaaa cataataaca 300  
tcttgccctag gaatggatga atattccagg gtttcaaata gtttagagtgc taaggaaatg 360  
tgggacactc ttcgattaac acatgaagga actacaaatg ttataagatc tatgataaat 420  
gcactaactc atgagtatga agtattttaga atgatgtaaa tgaaatattc a 471

<210> 13720  
<211> 471  
<212> DNA  
<213> Glycine max

<400> 13720

ttctccttgc cttagcacttc agaaccttct agttgggtca tatagatgtc ttctctctaaa 60  
 tgcccatgca agaatgcagt tctaaccatct aactgctcca agtgaagatt ctctgcagct 120  
 actatgctca gaataactct gatggtagtc atctttacaa ctggagagaa gatctctgtg 180  
 aaatcaattc cttgtttctg ctgaaacctt ttcaccacaa gtctcgccct gtatcttctt 240  
 ctaccgtcag attcttctct tagcctattg acccacctat gctgtaatgc cttcttttct 300  
 tctggcaata tagttaaaga ccacgtctta ttcttctgaa gggatgccat ctcatcttct 360  
 atcgctagcg tccactcaat agtgtcattc cctgtgtag cctcattgaa acattctgac 420  
 tcaccatcat cagttaacaa caaataatgc aatgaatgcg aatacctatc t 471

<210> 13721  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 13721

tactcaagct aacaatcctt gtgatctatt atggaatatt tctatgccta tcacatagct 60  
 tacctcatcc atatctttca cttcaaagtt tctagagaga aatttcttag tctcatgaag 120  
 aagaccacaga tcgttagttg cgagcatgat atcatctata tacagaatta gaaaataacc 180  
 ttacgtccac tgaccttcag atacatatac cgataaatag tattgtcctt gatctaaagg 240  
 aaacaatggg atattaaacc tcaaatacca ttggcgggaa ggttgcttta agactggata 300  
 ttgatttc 308

<210> 13722  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13722

gtatcgtagaa gtgtcgaggg catntacatt ttctgcagaa ggaaagacgc aatcatgtcc 60  
 ggggcttcca gctcgctgtt ttatatcgca cgttcctgaa tggacctcca atgttggtta 120  
 ctacaataaa actgagtact taagggttga gcacgcaagg aatcacgaga ttcgtggatc 180  
 tattgtctct cctatatctg atgtgcactc tcaagtgcc a tgtgtgtat tggaactagt 240  
 tactacaaag gaaaagccta actttgacag agaattacaa attgtttctc aagcactcca 300

ggtggatttt tctttgtgct acttctagca tatacttcaa tttcttatat tgattctgtc 360  
 tggcaaatct gtgttattct attagagatt tggatgtctt attaaaaagg gtatcatgga 420  
 gaagttctta ccttgtctga caaacgatgc ttgatttttt atttatatga tg 472

<210> 13723  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 13723

tgcctaatta tcttgaaatt gagagacaat gattattata cacacacagt gaaaatatta 60  
 agtattttatt acctctactt aacagaatat acttataaca ttacaaaata accataaatg 120  
 gggagagtat gatacaattg atacagatct tatacacgac agttagtctg tttcaccgac 180  
 taacattatt cggcactcaa tgagcccttt ctccaatcta atcatcttgg ttgagaagaa 240  
 agacgaatct tggcacatgt gtgtgtattt tttaactctg aacaaggctt gtgtcctata 300  
 taggtacctt atcccaacca ttaatgagtt actagatgaa ctccatgttt ctaaattcaa 360  
 tgtgaagagt gatcttaaatt cacgatttca ctagattcat atgcacgaca gtgaca 416

<210> 13724  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13724

ctcagcttct catatattat gcgcctgaat cagacttccg tttcaaaagt tatgaccata 60  
 tgaatntctc cactgtattc cgtgtgacaa gttatgacca tttgaatttc tcgatagcat 120  
 tcgctgatca atttcgagcg tctcgatata ttatgcgcct gaatcggact tccgtgtgac 180  
 aagttatgac catttgaatt tgtecgagagc ataccnggt tatatttcga gcgtctcgat 240  
 atattatgcg cctgaatcag acatccgtgt gacaagttat ggccatatga atntctcgag 300  
 agcattcgt 309

<210> 13725  
 <211> 415  
 <212> DNA

<213> Glycine max

<400> 13725

atgccttgac atttgttggc caagcaattt ctaatgactt ccaccttggc tttatcaact 60  
tcaatccac caacaaagat cttgtggcctt aaaacaatgc cttcagttac cataaaatgg 120  
catatttccc agttaagtac aagattgggtt tccatacact gcttttagtac ggtgtcaagt 180  
ttataatgga atgaatcaaa tgaagaccca agaacataga aatcatctat gaacacttca 240  
atgctctttt caacaagatc cacaaatatg gcaagcatgc attgttgaaa tgtagcatga 300  
gcgttacaaa gaccaaagg catcttcctg taagcgaaaa cactataggg gcaagtaaaa 360  
gttgtcttcc cttgatcttc aggtttaaca gggattcgat tatatactga ataac 415

<210> 13726

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13726

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taccatttct attaacttta ttaataatta ctattcgcta agaaaacctg actcatcagt 120  
gttaatgaag cttcctgtct ctttaataat ctccaagact cacttttaag actttgttcg 180  
gtgactgatg atatgggtgt tcttgacgga ctaaaatagt aatttaataa aaaaaactgt 240  
tttttaaga aattactttt tattatcttc aagtgagcca taagtacaag tagttaatgt 300  
gtaaattaaa attaaatcat gttagatatt atttaaatat aattattaat aaaaacaaat 360  
tttaatcaga tttatcttac cttttaccaa attacataac agtcacactc tcattacacg 420  
aatgttgatt aataactaa 438

<210> 13727

<211> 348

<212> DNA

<213> Glycine max

<400> 13727

atgttttttg aatctactct aatcagtcac acaaaccaca cgacaatgga gaatatacat 60  
ggagaataag atcaagaaca aggaattaaa gagaattcac cgaacaaaaa gatagaggaa 120

gcaaaagaac atcacctaga tgaagatgct cttgatacca catgatgtaa gtcctatcgg 180  
agcttgtagg cctaagatct tcttcatcaa tggattcctt tgcttcttgg aagatgaatg 240  
gcagcggaat ggataacgaa gagagagagg agatgccact tcaaggagaa gatgagtcta 300  
gaagaagctc accaccatac gaggccattg attagagctt ggatgaag 348

<210> 13728  
<211> 421  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13728

tongtattca atttcgagcg tctccatata ttacatgact cattccgaca tccgagtaaa 60  
aatttattgt cgtttgaatt tgctcagaac ttcggtattc aattctgagt gtcttgacat 120  
attacgggac tcaatcgac atcagagtaa aaatttattg tcgattgaat ttgctcataa 180  
cttcggtatt caattccgag cgtctcgaca tattactgga ctcaatcgca tatccgagta 240  
aaaagtatt gtcgtttgaa tttgctcaga gcttcggtat tcaatttcga gcgtctcgat 300  
atattacgtg actcaatccg acattcgagt acaaagtttt tgctgtttga atatgctcat 360  
agcttcggta ttctatttcg agcgtctcga catattacgt gacttaatcc gacatccgag 420  
t 421

<210> 13729  
<211> 381  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13729

cttttganag acacatctct tcataccatt tgaaaaggca cgaatggcct atatatatgt 60  
gtgtatgact tccaaaagca agagagagat attccaagag aatttcattg tcaaacgctc 120  
tctcgacaac tcttgggcaa acacttgcaa atctattgag agttcattca ggaacttcaa 180  
attggattat ccactctata ggagcgaaat ctttttggtc ttctcacaaa gtcaattgta 240  
atcaagagac tggttgtctc ttgaattgtg agtttcctaa acacaaggga aagggattcc 300  
ttgngtggtc aacagttgta acaaatttt ttacatagat agtggaaaat ctcaagtggg 360

ttgcttgagg actggacgta t

<210> 13730  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13730

ttacggacct ttaatctcag cttcacattc aattcaagcg tctcgatata atacgggact 60  
 caatcagaca tcggagtaaa aagttattgt cgtttgaatt gcctcagagg ttcaacattc 120  
 aatttcgagc gtctcgatat atttcgggac tcaatcagac atccgagtaa aaagttattg 180  
 tcgtttcaat tggctcagag gttcaacatt caattatgac cgtcccgata tattacgtca 240  
 ctgaattcga catccaagta aaaagttatt gtcgttggaa ttgctcaaag cttaaacatt 300  
 caatttcgag cgtctggata tattacggga ctcaatcaaa catacgagaa acatgttatt 360  
 gtcgnttgaa gttgctctca actacaacat tcaatttcga gcgttccgat atattacgag 420  
 agtcaatcat acatccgagt aaa 443

<210> 13731  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13731

tgccaagaca aacattcgga aagttagttt acaagataac gcttatttta gagcacaac 60  
 gacatgctaa tctttccgat ttagaacaaa ctggtgcaca catttcctta acgtaaaaca 120  
 tttatgaaca tgcgtatgtg taaactatcc tactatttac ctcaacatac aaggatattc 180  
 aaaatattct agttactaca catatatata ctgttttgaa aagaatacat atgcacacgc 240  
 tcaaaaatatt gtgtcaagaa tacacatggt catatcctaa gcatttcggt accacaaact 300  
 acacatttga agtattttat ttaacatata aatctttgct gttttattca cattatttat 360  
 acacatatgc acatcggaga gccaatctca cgtcacgcac acacttgcac ttgaatagag 420  
 actttcatgt catctattta cactngaagg gcaatcccac atcatatatc ca 472

<210> 13732  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13732

gaacttttct ttacatgtgc tatgtggctc attctccttt gcaagcaagt aaaatttttt 60  
 ggaagttctt ctaatgtaga accatttctc atcaatgaac acaatatttt ccatagactt 120  
 aaactntgga tcataaggca tgatcctatc atcgagcatt gacaagaaaa actttaagca 180  
 agcaatcatg ttctcaggct ttaaataatgg ctttaagtga tttgaatggc atngtataac 240  
 tcttgctntt ngcaatctaa acaatgatgt cgtgttaata ttcaaagcac aagataaaga 300  
 ccgaagggtg gtactatgga acttcacata gtctctcacc gtttagttga actctttttc 360  
 tttcatagtt ctttgttttg ttatgagaag catcaccac aaccttcaat tgattccaaa 420  
 tactaccaat gacacttata ttcacatcgt aca 453

<210> 13733  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 13733

tcttagtttc agatgatgca tatgggtgtg gagctacctc atgcactcct ctaatgacta 60  
 tggcatcatt tctggcgcta aactgttgag agttggaggc catcttctca attaaatctc 120  
 tggcttcagc aagagtcatt tctccaaggc ctccaccact ggcagcatct atcatacttc 180  
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240  
 ggtgagggga actggcacat aatttcttaa atcgtctcca gtactcatac aggctctctc 300  
 cattgagctg tctaatacct gagatatcta tcttgatggg tgaggtcctg gaagcaggga 360  
 aacagctttc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcca 420  
 ggtaatacaa ccagtccttt gccactcctt ctaatgaatg 460

<210> 13734  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13734

tgtatatngt cttattctat acaagaccac tttcatattc ttcctttgca ttggcataat 60  
gttcaattac tgtcaaggct tttggagcat ctataacttg ttcaactata ttttgtgcaa 120  
catttcggtt gataagctgc atcaaattctc tctttttcct ctgtattctt tcagcacgaa 180  
agtatttttt gggttttcaat tgcttggcaa ctttagtttg tatctctcct ttgacaatct 240  
tcttccgtat cgcateccaga gaagccccct tctcaagctc ttctaacaat tctnttcttg 300  
cttctcctaaa ttccatctaa ttcaattaag cagtgaagtgc cacaaagtat tgtagagaaa 360  
aatgaaatat gatcgacaat ctaagtaatt aatatttaatt actcagcaga agaaagaaga 420  
aatcat 426

<210> 13735  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13735

gaagtatagc aatataggag atctgttttg gttgattgat aaggactcaa attntaatca 60  
tgggttaagg agttgtacaa ttgatggaga tatattacat tagagggatg cttttgaaaa 120  
tgagaatgag ataaattttt attttcatca tgaagtagat ccaattatag aagaagtccc 180  
acagatgttg tacttggaat gtcaccaat tccagaccct gttgctggtg agtagagggga 240  
tggtgatgtt ggtgagcaaa gagatgctga tgctggtgag tagagggatg ctgatgctgg 300  
tgagcagagg gatgttgacg ctggtgagca gatagatggt ggtggtgaag agagagatgt 360  
tggtggtggt gcaagcctat tatcaccatg cttgaagaaa ttagaagtta catcatg 417

<210> 13736  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13736

tgagaagcta gagcttagct acactcacc ctctcataac taagctcacc tcttgagaaa 60  
gcttccttaa gaagattcct aaagaagcta gagcttagct acacatacct ctctaatagc 120



taagctcacc tccttatgat gagaagctag agcttagcta cacacccct ataataacta 180  
agctcacccc tatggcaaaa tacatgaaaa tagaaaaaaa aaatccctac tacaagact 240  
actcaaaata cctcgaaata caaggctaaa accctatact actagaatgg ccaaaataca 300  
aggcccaaac gaaggaaaaa cctattctaa tatttacaaa gataagcagg ctcatactta 360  
gtccatgggc tcaaaatcta ccctaaggct catgagaacc ctanggcctt cccttggatc 420  
tctggcccaa tctacttggg gtcttcta 448

<210> 13737  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13737

agcttgtaat caattacaca catactgtaa tcgattacca gagatagttt tcagaaaata 60  
ttctcaacag tcacatctnt ttacttgatt cttgaatggc tgtcaaaacc tatatatgtg 120  
tgacttggga cacgaatttg ctaagagatt ttcagaacaa aaaggcttta tcctcttaaa 180  
aagaagaatc gttttatcct cttacaaatt ccttggctaa aacacttggtg attcaataag 240  
gaattatttg agtgctcaaa tcgttcaatc tatctctgtc aagagagatt tcttcttttc 300  
ttcttcttca ttctgaaaag ggattaagag acctagggtc tcttggttggtg aaagaattct 360  
aaacacaaaag gaagggttgt ccttggtgtgt ttagaacttg taaaaggaat gtacaagata 420  
gtggaactct caagcgggtt gcttggtggac tggacgt 457

<210> 13738  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13738

gcttattagt gcacaactcc ttcaagtatt tagcatatct tagaatttgc tntattgcat 60  
ccagcagagg tatgtttacc tctactttcc taaatgcttn cagatctcct tctctgcctc 120  
ttccattttt ttgttgaaa ttgctcttgg agggaatgga agagggatat gctgcttctc 180  
tttatattca cctgcataga aattggtagg taacttactc ttttaatttt tgtcttcac 240

tttttctgga gtagagtgag gttgggcagg ttcatttgcg gatgaggaag atgctactgt 300  
 gtgaggctct tgatgctgcc ttctgacct caatgtaatg gactcacat ttttgggatt 360  
 ttggacagat tgagaaggta atttatcata attcaggac tgttgttgat ttaactgtgt 420  
 agccaactgt cccatctgat tatgtaagct ctaaaggag gctctggtc 469

<210> 13739  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13739

ntctggttgt acataaaagg gttatttcta tgtttatttc tattattnta ttaagctat 60  
 gccacatgtc tccgtttgag tggagcaaga agggccact ttctcttttg attgtgacct 120  
 atactgatgc aagctccatt ggagcttgta ggctaggat cttcttcac aatggattcc 180  
 tttgcttctt ggaagatgaa tggcagcgga atggagaaag gaagagagag aggagacgcc 240  
 acttcaagga gaagatgagt ctagaagaag ctcaccacca taggaggcca tggataagag 300  
 cttggaggaa gaaggagatg aatgaaggga gagggagaga agagcacgaa atttgtgct 360  
 ctaaagtagc tntgaaatct gaagttaat attcaaatga tcaaagttga aaaaaatgca 420  
 cacacatgac ctctatttgt agcctaagtg tcacac 456

<210> 13740  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 13740

agtgaccatg tgaataactc aagagcttcc attgttcaat tttgagcgtc tcgatatatt 60  
 atgcgcctta atcggaacctc cgagtgaata gttatgacca tttgaataac tcaagagctt 120  
 ccattgttca atttcgagcg tctcgatata ttatgtgcct gaatctgacc tccgtgtgaa 180  
 aagttagac catttgaatt tctcgagagc ttccgttggt caatttcgag cgtctcgata 240  
 tcttatgcgc ctgaatcgga cctccgagtg aaaagttatg accatttgaa taactcaaga 300  
 gcttgcatgt ttcaattacg agcgtctcga tatattatgt gcctgaatcg gacctccgag 360

tgtaatgtta tgaccatttg aattgctcaa g

391

<210> 13741  
<211> 211  
<212> DNA  
<213> Glycine max

<400> 13741

gcctcgctac atatatgcgc cgggctcgga catccgcgtg agaagctatg accatatgaa 60  
tatctgcaga gcttccgacg ctgaagtccg agcgtgtcgc tatataattc gccagactcg 120  
gacctgcgcg tgagaagcta tgaccatatt aatatggcga gagcttccgc agtcatgat 180  
cgagcctcgc taaatatgat gcgccacaat c 211

<210> 13742  
<211> 217  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13742

gtgtgatgca ttaattattc atnggtgtgc tgtccttgct caaaataatg atatatagcc 60  
tatggtgata tattatgctt ctaggacttt atacgcccc aagcgaatta tactactact 120  
gagaaagagt tactagccgt aattgttgct cttgaaagcc tatgttgatt cgatggatgc 180  
tctggctcca agagtttgac ttggagatcc gtgatat 217

<210> 13743  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13743

agcttttgat gaggatgaat taataaaata ttgtattaat cttgaaattn ttttaaggtt 60  
taatgaatac tctgatatta atagtcttga tttattttcg aattgtaagt attaagagaa 120  
atgttaagag aagaaattaa cacaccaata gaagtattga gttatattaa aacttttagat 180  
tcttttccaa atgtttacat tgcataataa attntattac tgctgaaaga agtttttcaa 240  
aattaaaatt gcttaaatca tatctaaaat caacaatatt ataagataga ttgaatgagt 300

tagttattnt atctattgaa agtgaagtgt tagaattggt tgattataaa actctaataa 360  
 atgattntgc agctaanaaa gctacaagat taatataaaa attagtattt tatgtaatat 420  
 actaagtctc tctaaaattc ttggtaaaaa tagaccctt taaca 465

<210> 13744  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13744

tanacattca acttcgagcg tctcgatata ttacgagtct ctatcaaaca tccgagaaga 60  
 aagttattgt cgtttgaatt tgctcagagg ttcaacattc aattttgagc gtctcggtat 120  
 attacaggac tcaatcagac attcgagtaa aaagttattg tcgtttgaat tggcttagag 180  
 cttcaacatt caatttcgag cgtgtcgata tatgatggga ctcaatcaga catccgtgta 240  
 aaaagttatt gtcgtttgaa ttggctcaga gcttcaacat tcaattttga gcgtctggat 300  
 atatgacagg actcaatcag acatccgagt aaaaagttat tgctgtttga attggctcag 360  
 agcttcaaca ttcaatttcg agcgtctcga tatattacgg gactcaatca gacatccgag 420  
 taaaaagtta ttgtcggctg aatntgctca gagcttcaac attcaa 466

<210> 13745  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13745

agctttgaac caattcaaac gacaataact ntttactcgg atgtctgatt gaggcccgtg 60  
 atatatcgag acgctcgtaa ttgaatgtga agctctgagc caattcaaac gacaatnaac 120  
 ttttactcgg atgtctgatt gaggcctgtc atatatcgag acgctcgaaa ttgaatgttg 180  
 aagatctgag ccaattcaaa cgacaataac tttttactcg gatgtctgat ggaggcccgt 240  
 atatatcgag acgctcgaaa ttgaatgttg aacctctgag cgaattcaaa cgacaattac 300  
 tctgtactcg gatgtctgat tgaggctcgt gatatatcga gacgctcgaa attgaatgtt 360  
 gaagctctga gctaattc 378

<210> 13746  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13746

acacatacct ctctaatagc taagctcacc ttcttgagat gagaagctag agcttagcta 60  
 cacaccnct ataatagcta agctcacccc catgacaaaa aacatgaaaa tacaaaaaaa 120  
 aagtccttac tacaaagact actcaaaatg cctcgaaata caaggctaaa accctatact 180  
 actagaatgg ccaaaatata atgccagac gaaggaaata cctattctaa tatttacaaa 240  
 gataagcggg ctcatactta gcccatgggc tcgaaatcta ccctaaggct catgagaacc 300  
 ctagggcctt cccttggatc tctagccaat ctacttggag tcttctaccc aatgcccttg 360  
 cggtgtagga tagcgtcatt ccctccacct tggacagatt tgacctcaa tcccgagggt 420  
 cttcactctc tgggctcctt ccctcaacac ctgtaaaaag aacaaaaaca tatgt 475

<210> 13747  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13747

agctntacaa ggagatatta ctcttgatgc atagttggat gaaagggata agattatctt 60  
 gatggataat gtcacaatg caatcatctt gagtcttaag acaaagtact acgacaagtc 120  
 tcgaaggaga agacaacaac tgaaatttgg ttgaaactag aaggtttata catgaccaa 180  
 tctctggtaa atcatcttta tcttaaaca gccttatatt catttaagat gcaagaagat 240  
 ataaatgtgg aatctcaatt ggatgtcttt aataaactga ttcttgatct agaaaaatata 300  
 gatgtgacta ttgatgatga atatcagacc ctgttactat tgtgtgcttt gccaaagtct 360  
 tcctctcatt ttaaagaaac tctcttgat 390

<210> 13748  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 13748

ctcttccaat ttatggttat ttgtagtgt tataagtatt ttctgttaag tataggtaat 60  
aaatacttag tacttccatt ttgtgtgttt aataatcata ttctctcaat ttcagggttaa 120  
ttatgcaagc tctgaaaagt gttgtgtttc accttctcgc taagtcaatc tgccttggtg 180  
tgggcggccc accgtctaag gcaatacatg ctgagccata ctacctgttt ggtgtccaag 240  
atggatccag ttaagtatat gtttgataag cctgccctta cgggatagat cactctatgg 300  
caagtgttg c tatccgaatt tgacatcgtc tatgtcacc tgaaagtgat aagggaagcg 360  
ccttggcata tatctggcca tctatcacca attattatca ccttgcatt atgtttcata 420  
taggacatca tggcctatca tggaaaact 449

<210> 13749

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13749

tacctgtgct tccgtacact tcagtttagg atgtgatgca tgcccagcca aatcatgctc 60  
catgtattcg aaaacaaggt ataagctgca agacatcctt gatgtaacaa ggccttccag 120  
ttttatgaca ttggatgat caagcctacg tagaatgtga atttcccttg ccatgaagcg 180  
aacactctct ggctcaagat tatcaaacct gacttttttc aaagcaacaa tattattttg 240  
ctcaagatca cgagccctat aaacattact ataagttccc tgtccaatct gaaaaataag 300  
gaggaaaatc ttaccattca aggaaaacta aaacaggctg aagacaatat catcatttaa 360  
ttgcaatcca agacaaaaaa naacaaanag gatatttata aatctagaaa ctacaagtat 420  
tgtacctcaa tgttgtgtta tctacatcag aggatgaaat caagaatatt aa 472

<210> 13750

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13750

ntctcaaaat ccttatctat ctaccctctt attaactaaa ttaacttctt taaaaataat 60

tacggatgaa aataacgcaa cagataatca aacatcaaac ataattacta ataatatata 120  
gatatatcag ggtgttacag agactaaagt agtctcggtg ttctttcact aagatgtgag 180  
cacgcttagc atagaagcaa acctccaaac cgatcagagc agcacatact ttttttttga 240  
agaanaacaa tgtgtctact ggagaaggaa agcatgctga tagaactttc tcacaaccac 300  
aaatgagatt taggatatta gcatttcggt tctaaatgat catttagagg aaagactggg 360  
tccaactgan atagaagaaa atcactcaca gtgtataaat cttacacagg caagtgtttc 420  
atcctaattc cgaaccatag atatgttatg 450

<210> 13751  
<211> 433  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13751

tcacattcta tacaaagtca agtccattgc gtttgttaca ntattctgca ccaacagaat 60  
aatgcacaag ttctaagtaa cagatacaag tgcattgatg atagtgttaa acaaataagag 120  
acattgagac cgagtctaac ctgcatcttc tgtggtgaaa cacaagggag gtgtaattct 180  
gaagacattt ccatagtaac cacccttacc aataagtact cctagttctg tagtaattca 240  
gaatgaccgg ttagtaataa tatagaagat aactatagct aggatcaaaa tatgtgtcta 300  
gactagaggg atatggatat tacctttcat ttgggtccatt acatgcaatg tttcattttt 360  
tgctggagtt gtaagttcac gatcagtgac aagttcaact cctagcatca ggctctttc 420  
tctgacatca cca 433

<210> 13752  
<211> 315  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13752

tctgctgacc accatacaaa cttttgcct tccatgcagc aacctggagc aattgagcag 60  
cctgaagctt atgctgcaaa tatgtacaat atacctctc aacctcagta gctaaaccaa 120  
ccacagcaga acaattatga cttgtgcagc aacagataca accctggatg gaggaatcac 180

cctaacctca gatggtccag cctcagcaa caacaatagc agcctgctcc ttccttcena 240  
aatgctgctg gccaagcag accatacatt cttccaccaa tccaacaaca gcaacaaccc 300  
cagaaacagt caaca 315

<210> 13753  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13753

tctncacttg tatcttngc cttaattcaa anagtatggt tatcactngn ngaagagctt 60  
ccttggcctt ctttgttcta gcccttgtca tacgtcctcc aagttcttct aaagggtcct 120  
tgcccttagt ccttaccatg tctcatcac tctctccctc ttcaaaagga tttatgctca 180  
aatcggtctt tccatctgca tcaaaaagag ttaattcaaa cacattaaat gtagtactca 240  
cattatactc accgggcaat tcaatcttga atgcattgtc atttaccctt tcaagtactt 300  
gaaatggacc atccccctt ggttgaagct tggattactt tgctccagaa acctctcctt 360  
tctcatgtga acccaaacc aatctccggg ttggaaaaat aaccttttgc gcccttttgt 420  
tgcttgctag catagctctc attcctcttt 450

<210> 13754  
<211> 188  
<212> DNA  
<213> Glycine max

<400> 13754

cgctgaatt gtaccatggc gtgcatagtt atgaccattt gaatatatcg agagctctcg 60  
ttgttcaatt ccgagcgtct ctatatatga tgcgcctgga tctgacctcc ggggtggaacg 120  
ctatgaccat ttgaatttct ccagagcttc cattgttcaa gttcgagcgt ctctatatat 180  
tgtgcgcc 188

<210> 13755  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 13755

agctntgtag cagatgccac tctactcata gtttttgaaa gatatgttgt caaagaagca 60  
caaatacatt cactatgaga atatcattgt ggaatgcact gtagcgctgc gatacaaaag 120  
atccttccac caagacacaa ggaccctata agtgtgacta ttccttgttc aatagggtgaa 180  
gtcacataga gaaaggctct cattgactng ngagccaata tcaacttaat tccactctcc 240  
atgtgtagaa cggtagagaga gttggaaatc atgcccacca taatgacttt acagcttgct 300  
gatcgatcca tcacaaggtc ttacagggtta attgaagacg ttctgataag agttaagcat 360  
atgggtctctc cagctgactt cgtgggtcatg gatatggagg aagaccatga cgttcccatc 420  
attgtaggat ggcccttatg ttaactgcaa gttgagtagt tgacatg 467

<210> 13756

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13756

taatatattt tgggtttata ttaatatact gccattttnn tttttcttta taattcgagc 60  
ttttatttgt gatttgtatt ttggtaacaa agcaaatain ttaagtctat taccatagat 120  
ccattatatg ttgaaatgtc agggagagtt gaaaactcat tcaatataaa cttacgaaga 180  
caatattcat aataaataaa ctatctatta atacgataat actttttaat cacatatcat 240  
atcttaattt gaataaagaa gatatgaaac atattaataa ttaccatctt agtgtaacaa 300  
taacataaaa atatattaac acaaatccat tttctggatt actcggagaa gtaagccttg 360

<210> 13757

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13757

tgaacctgct aatcaaaagc ctttcttctg agcccaaat catttcttta atttatctga 60  
tattttggaa acacgtcaat ttctgaaata tatactttat gaaaaacgat tcttaaaatt 120  
aattagattg atctcaataa tgcagatttt aatctaagtc ctttggttg agtttatctt 180

ttaaataatta aaagatatgt ttaaaaaatg ttgcaataat tgtgattaat ataaataact 240  
 taaaagacgt ctccaatgct ttttccatat ttgataacgc acatttaaaa tagtttgtaa 300  
 caaagctgca taaagaaata cttaattntt aataataaat aaacaagcag atctcanatc 360  
 tatcagcgac tggatatagac atcatacata aagagcagac atactatg 408

<210> 13758  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13758

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 cattctctta aagatttatg ctataatatg gcttttgtat ctatgattga acctaaaaat 120  
 ataaaagaag ccatagtaga tgataactgg atcattgccca tgcaagaaga actgaaccaa 180  
 tttgaaagaa acaatgtgtg gaaattagta gaaaaacctg aaaattatcc tgtcatatgg 240  
 acaaaatggg tttttagaaa taaattagat gaacatggta taattattag aaataaagcc 300  
 aggttagtag caaaagggtg taatcaagaa gaaggaagag attatgaaga aacatatgct 360  
 cctg 364

<210> 13759  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 13759

agcttgacaca tcttctcgat caggttgaca atttaaactt aattgtccct tggcagcttc 60  
 agccaccgca tgggtgtgac tccttgaatc caattcattt tgcacccgta cctcattctc 120  
 caatctgtca actggagtta aatgtcgtaa ggtgctatct acttctgatt catctttggt 180  
 ccgcatgat aactgatttc tctgagcaat ctctgcttca cgttcggatt gccgcttctt 240  
 ctttcgcata atcacggttg taaaccgacg tttaactgtc atgcacacat tgcagggtgca 300  
 tgtggggttg tgtttgccct tcccacttgg tggctggata cagacaatgc aagagcaccc 360  
 acgtctatgc cgaggatggt ttgtggtgct aacaactgat gtcctgccag agtcacttgc 420  
 at 422

<210> 13760  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13760

agctagacat ctgatgtgtg gacatcttgt acttctgaag ttatatattca ttaactgcgc 60  
 attatgttga tgcaaattgg aagttgaata gtaaaatggg taatttttct tattttcctc 120  
 ctccacacta ggggcgtgag atggctaaag ttatatatgg tttttttgga agaatggggg 180  
 attgagcana aaatattttc attaactcta gatgatgctt cttccaatga taaaatgcaa 240  
 gactatttga aggaaagact tttgcatact aatgggttag taagtgggtg tgaatttttt 300  
 catatctgat gttgtgctca cattttanac cttaaagtgc aagaggagtg aaagtagtcg 360  
 gtcctgcttg taaaaaaatt agtgaaagca ttaagtatgt taagggatca gagggagaat 420  
 gaaagtttt 429

<210> 13761  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13761

gcttaagaat aatggcctca gcaaacttct tattcccaga aggaaactct ataaataggc 60  
 ctctaattt taatggagag gggtaccact actggaaaac ccgaatgcaa aatttcattg 120  
 aggcaataga cttaaacatt tatgaagcca taaaagttgg accttatgta cccaccatgg 180  
 tggctggtaa tacaacaatt gagaaaccta tagaagagtg gtctgaagaa gaaagaagat 240  
 tagtgcagta caatttaaag gctaaaaata tcattacttc tgccctaaga atggatgaat 300  
 attttagggt gtcaaattgt aagagtgcta acgatatgtg ggacactcta caagttacac 360  
 atgaggaac aactgatgtt aaaagatcta ggataaatac tataactcat gagtatgaat 420  
 tatttatgat gaagacaaat gagagtatac aagatgtgca taanagaatc atacata 477

<210> 13762  
 <211> 343

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13762

agctattcta atgaacaag aacaaagtct cttgtgcacg ttattgaagn tgtgcggcta 60  
gctacctgtt gttatctact tatacggtag aaaggaaaat gaataaatta atgagataat 120  
aagtgaataa taacacatgc ctaatggaaa aatttctttt ctcaaataa gcacttcatt 180  
gtagctttct caataccgat ggttggaat tgctgtgcat acgtcacaac ataaatgaag 240  
atcttttgcta tctccgattg aaaggtagaa gatgattgaa ttgcgggtcta tatatccttc 300  
agcgggtgctg ctctgtgctaa aatgtcaaca tcgaccacat att 343

<210> 13763  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13763

ntgagccaag tcttttgcaat cctgccctca gttcttcata tgtgattgta ccactattgt 60  
cagtgtcgat atttgtgaac attgccttca agccttggat ctcttcttca gaaagattnt 120  
cagcaatgac ctaaaagatt atttaaaatc cattcagttt atttttgaat tggtagaaat 180  
atgtaccctt aaagttacac agactcaagc aatttagagt cataatgagc actggaaaaa 240  
tatttatgtc tctcaatgtt taattatgcc atcaaataca ataagcataa aagagcattg 300  
tgatcacttc atgcagctag tggctggact aaccttgagg gctagtcttt ttagattatt 360  
cattgctctg aatngcttat tctggaaagc actgcactgt ct 402

<210> 13764  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13764

tactagctca ctgattactt tgttattgaa gaatatgctt tctgtatata acacattacc 60  
caagaatcat tacaaggcga ataagatatt atgtcctgtg ggtatggaat actagaaaat 120

acatacatgc cttaatgatt gtaatttgta tagaaatcac tttgccaaaa tgcgtaactt 180  
 tcctacatgt ggggtgtcac actacaaagt gaantttgac aaatgcagtg atacagtctg 240  
 atcgatgccg cacctgaatc aaataaacat tataatgcat taactaggaa gtgatcctag 300  
 gtcgtttccc aacgagcaat gataaactag atggtcataa cagataatag gaacatagta 360  
 acgaattgtg gggggattgt ttgcttttgt gaattaaac 399

<210> 13765  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13765

cgtgtcacac tntcaactgc cgaagctaaa tatatagccg catgaagttg ttgtgctcaa 60  
 agtctctaga tgaagcaaca actacaagac tttagagtaa accttgatca cattcctcta 120  
 aaatgggaca acacaagtgt tatcaatcta accaaaaacc ctgtcatgca ttttatgact 180  
 aagcacatag aaattatgca tattaaatgc atcaagcata gaataacatt ctgtttgtac 240  
 aagtatgtga ttcacattgc tattcatatc attttttttg tttagtttgt gtcttagtta 300  
 ttgatttatg tgcatactca ttagtttggt tgaatatcac atgtatttct tagtaatttc 360  
 gtgatttctc tgtgttctaa tagattatgc tcggttctaa tcaactattg tatgatatct 420  
 gtttggtgtaag ttttcaaaac cttctatttt aatcaatata ccatgattta atcgattacg 480  
 atngcttaat gtgt 494

<210> 13766  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 13766

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 taccatttca tctcatttcc aaacacagcc cagttaaaat gctttacaat gaagttaaca 120  
 tagtccttgt cgtaaatgat cgttctgctg atgcatgctc caattgggaa atcattatgc 180  
 gtttggtataa cttttaccga tgtgttagca tagctgccag agtccagtcc atagaatttc 240  
 aggataactt cacgtttacg aatctgcaac ccagcatgtc agtataaatt aaaatatata 300

aaaataatgc gaatcatctc atattccatc aatgaagaat ggatcatgtt atattaagac 360  
aaggcactat agtctgaaac atactcagct ttatgtacca tttta 404

<210> 13767  
<211> 429  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13767

gctngaattct tctaccgcat ttctgacagc ctatgggtgt gtccagttta agcggttcct 60  
aagaatacat gcctcacagt gattaagaat gagaagaatg agcttatccc cacaagagtg 120  
cagaacagct ggcgagtctg cattgggttat aggaggctga accacgtgac cagaaaaatat 180  
cattttcccc tgccattcat tgatcaaatg cttgagcgtg tggcaagaag tctcattact 240  
atthttcttga tggthtttct ggthatttac aaattcatat tgctcttgag gatcaagaaa 300  
agaccatatt cacctgttcc tttagcactt tttctataa gaggatgccc tttgggtctat 360  
gcaacgcccc tgataccttc tagtgatgta tgcttagcat tttcagtgat tttttagaga 420  
ggtgcatat 429

<210> 13768  
<211> 391  
<212> DNA  
<213> Glycine max  
<400> 13768

tctgtagggt taaagtctca tgattgtcac atgctcatgc ttcttttgtt agccgtgggt 60  
atacaagaca tcttgccata caaagtcagg ttagccataa ctgcctgtg cttattcttc 120  
catgctatat gtagcaaagt cattgatcct gtcaagtttg ataagctgga aaatgaagcc 180  
gcaattatgc tgtgccagtt ggagatgtat tttccccctg ctttcttaga catcatgatt 240  
catttgattg cgcactctgt cagagaaatc aaatgttgtg gtctgtcta tctatgggtg 300  
atgtaccggg ttgggagata catgaagatc ttataaggct atacaaagaa tctatatcat 360  
ccacaagcat ctattgttga gaggtacatt g 391

<210> 13769

<211> 327  
<212> DNA  
<213> Glycine max

<400> 13769

tataatatat cgctcgctc gaaattgaac aacgaaaggt cttgtgatat tcacatggtc 60  
ataactatta actcggatgt ccaattcatg cgcattatat ataaagacgc taacaaatgc 120  
acatcggaag ctctccacat aggaaaatgc gtcatcagtc ttcacactga ggtccgattc 180  
acgcttataa tatatcgacg cactccaaat cgaacaacgg aagctcttga gaaattcaaa 240  
aggtcataac ctctatctct gatgtgcat tcatgcat aatatgtcga tatgatggaa 300  
actgtactac ggaagctctc gacaaat 327

<210> 13770  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13770

tgtatactaa catggataaa tgtgtgttct atttgacac tgttgttttc cttggntttg 60  
ttgttatctc acagggagta caggttgatc aagaaaaggt gaaagccatt caagaatggc 120  
caacccccat aactattagt gaggtgaaga gctttcatgg ttaacaagtt gctacacgag 180  
atttgttatg gaatttagta ctatggaagc acctcttact aagatttcca agaaaaatgt 240  
aggatttaaa tggggggaaa aacaagaaca tgcattcgct gcactcaaag aaaaattgat 300  
gcatgcacca attcctacat tacctaattn tggcagattc tttgaaatcg agtgtgatgc 360  
atctggcggt gggatatggg ttgtttaatg caagaggaca tcccatacct ac 412

<210> 13771  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13771

tctaaactnt atacaagaat gaagctctga taccacttgt tagacattaa gatattacaa 60  
actatntccc caattaaaat tctattttta tttcaatgca ngttacaagt tcccttaaaa 120

atgaactatt aaataattat tcaaataaaa caatctgaat ataaatgcaa agcaataata 180  
aataaaagag tttaaggaaa gagaaagtc aaactcagat ttatactggg tcgaccacac 240  
ccttggtcct acgtccagtc cccaagcaac ccgcttgaga gtgtcactat cttgtaaaaat 300  
ccgtttacaa gttctgatca cacaaggaca atccgttctt tgtgttcaga tttctttaca 360  
acaagagacc ctacgtctct ctatctcttt ngacgaatta gaaagatgag aagaataaat 420  
ctctcttgaa tagatagaat gacaatttga cactcattaa ttccta 466

<210> 13772  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13772

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nactgaattg gtgagacatg gagttacaag atttgctacc actttcttaa ctttgcaaag 120  
attgcataag caaaaggcca atcttagaag gttgtttact tcagatgaat gggtgaagtc 180  
taaggtagct aaagagccca cagggaagca agcaacagat gttattctta ttccatcatt 240  
ttggaatgat gttgtttatg ctttaaaagc tatgaggcct cttgtaagtg tggtgaggct 300  
gggtggataat gaaaagaaac ctgcaatggg tttcatttat gaagcaatgg atagggccaa 360  
aaaagcaatt c 371

<210> 13773  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 13773

agcttcaaac ctcttacaag ggagcagatc tggtaagat ggtacatctt caaactttac 60  
atatgaaaga aggtgaagtc atctccgaat gaagaagaag agagtagtca caataattac 120  
tcaagacgca agttaattcg atcaacaaag aaagtagtca caataataga agccaacgaa 180  
ggcgaggctg tgatggagat cgatgaagag gacaaggcca tggacaagga aaaggatgag 240  
gttgagggcc ttatgacgat aactacaact tccaaagagg ttatgggcaa ggcaactgaa 300  
gatcgaggta tcacaagtca aatgtgaaat gttacaattg tgagaagttt gattattatg 360



cttctgaatc tagagccctt agcaacaat

389

<210> 13774  
<211> 368  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13774

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aatagaaaac gaaaacttgt atcaagtgca taccacaatc acattttaact tgtcgcgaaa 120  
tatgttgaga tgcctcgaaat ttgaaaagaa atttcatagc aaattcaaac gacaataact 180  
ctttacacgg atgttcgatt gagtcccgta atatatcgag atgctccaaa ttgataacgg 240  
atgctcgaat catattcaaa cgactataac tctctacacg gatgtctgat tgagttccgc 300  
aatatatcga gacgctccaa attgaaacgg aagctcctaa caattcaacg accatacttt 360  
tactcgat 368

<210> 13775  
<211> 319  
<212> DNA  
<213> Glycine max  
  
<400> 13775

agcttccatt ttcaatttgg agcgtctcga tatattacgg tttgtcttcc ggacatccgc 60  
gcataaagat attgtctttt caatttgctc atagcttcag agctaaatat tgagcgtctc 120  
taaataattac aggactcaat aagacatctg agtaaagagt tattgtagat tgaatgtgct 180  
acgagcttcc gctttcaact tggagcgtct cgatatataa cgggactcaa tcggacatac 240  
gcgtataaag ttatatgtcg tttgaatttg ctacgagctt caagtatcaa tttggagagt 300  
ctcgatatat ttcgggact 319

<210> 13776  
<211> 475  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13776

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 ttttgaaacg gaccctcttt cgtaaattgt ttttaaaagg aaccccatat agtaaatttg 120  
 ccaagaaatt agtggtgtac ccataaaata attttttaaa atgaataaaa atgttataag 180  
 agataaaaaa aattgatatt aattatatca ttctatTTTT taattttata gtatcgacaa 240  
 tgagaaaatt atataatatt tttgaaaata tataaatgCG taaagaataa ttataatttg 300  
 taataatata agtattttga atttctttat catgagatta tatatcttat aacaaattat 360  
 aataatcttc ttctataaaa aaatttatat atatctgtac tgaattcagc aaagcataat 420  
 atttagaaaa caaataanat agtatcta atattttatt caagtttttc aaaag 475

<210> 13777  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13777

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 aacgagacgc tcgaaattga atgttgaagc tcttagcaaa ttcaaacgac aataagtatt 120  
 tactcagata tcttattgtg tcccgtcata tatcgagaca ctcgaaattg aatgttgaag 180  
 ctctgagcca attcacacga caataacttt ttactcggat gtctgattga gtcccgtaat 240  
 atattgagac gctcgaaatt gaatgttgaa tctctgagca aattcaaacg acaatagctt 300  
 ttactctga tgtctgattg agtcccggaa catatcgaga cgct 344

<210> 13778  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13778

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 aaaaagttat tgtcgcttga attggctcag aggttcaaca ttaaatttcg agcgtctcgc 120  
 tatattacgg gactcaatca aacatccgag taaaagata ttgtcgtttg aattggctca 180  
 gggcttcaac attcaatttt gagcgtctcg atatatgacg agactcaatc agacatccga 240

gtaaaaagtt attgtcgttt gcatttgctc agagggtcaa cattcaattt cgagcgtctc 300  
gatatgttac gggactcaat cagacatccg agtaaaaagc tattgtcggg tgaattgggt 360  
cagagattca acattcaatt tcgagcgtct cgatatatta cgggactcaa tcagacatc 419

<210> 13779  
<211> 420  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13779

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caaggtccac ttggacccca tttctaccaa ctacaaaccc taagataact atattttcta 120  
cacaaaaagt acacttctct atatttgcac agagggtggt tttcctaagg actgaaagaa 180  
cttgtctgag atttcataag tgatcatcta ggcttctact gtacactata atatcatcaa 240  
aataaacaac tacaaatcta cctatgaaat cccttaagac atgatgcata agcctcataa 300  
aggtgcttgg tgcattagtg agcccaaaag gcactactag ccattcatac aaaccaaact 360  
tggtattgaa agcgggtntc cactcatcac tccttttcat cctgatttgg tgataacctac 420

<210> 13780  
<211> 280  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 13780

ngctaacca cggagctcc taatatctcc cacactgtat gatgtgggcc actcttggat 60  
gaccttgatc ttctcaaggc ccacgagtac ctcatttcta ccgactacta accctaagat 120  
aactatatta tctacacatg aggaactctt ctctatattg tcatagagag agcttgtctt 180  
aaagactgac ataacttgcc cgagatgtcc taatagagca tctaagctcc tactgatcac 240  
tgaagtatca tcataattat caactgcaca tctacctatg 280

<210> 13781  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13781

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tgagctgcca ggtctctcca cctttgggag tattcttttg aaagattcgt gccnccttt 120  
tgcacatggt ctgtagttgc atcctatctg aagacattat actgacactg cctaacgaag 180  
gcaaccacta ggtccttcca agaattggact cggaagggtt ccaagttagt gtaccaggta 240  
acagctaccc cagtaagact ntcttgaag gaatgtataa gcaattcctc atcttttgcg 300  
tatgcctcca tcttctgata atacatctnt agatggttct tggggcaagt agtccccttg 360  
tacttgtc 368

<210> 13782  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13782

cgtctcagga atgtcatgtg ctcatgcaat aattgttagc catggctata cgagacatct 60  
tgccaaacaa agtcagggtta gacataactc tgctgtgct tttcttccat gctatatgta 120  
gcanagtcat tgatcttgtg aagtttgatg agctgganaa tgaggctgca attatactgt 180  
gccagttgga gatatacttt cctctgctn tctttgacat catgattcac tagattgtgc 240  
atctggtcag agaaatcaaa tgttgtggac ctgtttatct actgtggatg tacctgattg 300  
agcgatacat gaagatctta atatggtata caataaattt atatgctta aagcatctat 360  
cgtgaaaggt acatggagaa gacgcatga atttgta 398

<210> 13783  
<211> 241  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13783

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tttgacttta cccgtatctt tgtggatgta tgccttgaaa attgtcatgt atttggtgaa 120

tatgggttcoct agtaagacag ttccaaagac acctttngaa ctgtggacaa atatgacacc 180  
tagtataaga cacctgcatg tctgggggttg tchangtanaa ataatgattt ataatccaca 240  
a 241

<210> 13784  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 13784

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aaggggttcaa aaggaaaagg gttttgcatt tcttccatca aaagtgatca tggaattgag 120  
ttagagaatg ctgagttcat atcattttgt gaaaggaatg gcattttcttg caacttctct 180  
taatctagaa cacctcaact gaatggagta attgataggg aaaataaaaac tctacatgac 240  
atgggtacga ccattgctttg ggataactta cttcctaaac acttttgggt agaattagtg 300  
atcatagctt gctatga 317

<210> 13785  
<211> 347  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13785

agacatggag ttacaagatt tgctaccact ttcttaactt tgcaaagatt gcataagcaa 60  
aaggccaatc ttagaagggtg tttacttcag atgaatgggt gaagtctaag gtagctaaag 120  
agcccaaggg gaagcaagca acagatgtta ttcttattcc atcatttttg aatgatgttg 180  
tttatgctnt aaaagctatg aggcctcttg taagtgtgtt gaggggtgtg gataatgaaa 240  
agaaacctgc aatgggtttc atttatgaag caatggatag ggccaaaaaa gcaattcata 300  
gagctttcaa taacaatgaa gggaagtata acgatatcct tgcaatc 347

<210> 13786  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13786

gccatgcacg atgtgtctgt tntagatgaa agttgtctgc ctctcatcaa taagaccaca 60  
tatcacttgt ctactctat ttgctaataa cttagatata accttgtaga tacatccaat 120  
caatgagatt ggtctgtact catcagatga ctgtgggtgt tcggttctgg gaattacagc 180  
tatgaaagaa gcattactgc ctctatggaa gctgccctgc acatggaatt catctacaaa 240  
tcttctgaag tcagttttca tcatttgcca aaattcttta atgaatttca agtttaagcc 300  
atcatgtcca agacanttgt gccatcaca actgcacact gcttctttga tc 352

<210> 13787

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13787

tgacattcac cacatatttt gccttcttct atttctaata gagaatgcct ctaacagcac 60  
cttcgtcaat gattctcttc atgcctotta agtgcagatg tccaaatctt tgatgccata 120  
ttntgacttc atcttgtttg gagaatagac atgtggagga gtaactgggt tcttgagggtg 180  
tccatacgta aacagtggcc ttgatctgc tgcccttcat taggacttca ctcttctcat 240  
ttggcaccaa gcattctgac ttgtgaagt ttacattgaa tccttcatca cacaactgac 300  
tgatgctaata caagtctgca gtcagtcctt tcaccagcag tactgtgttc agactaagaa 360  
gtccatcatg gact 374

<210> 13788

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13788

aatggcgatg actagtggca cacatgtatg ggcgacaacc cttatcataa gatgaacaaa 60  
ggagaaggat agcattgtgg gggacctcca tacagactga gcaggttgca tcttcccaat 120  
ctttcttctc caatgcttta gaagagctct tcttaacatt aacatcttct agatttttct 180  
ttccacaaga caaaagatgt gggcttgccc tgtgacctcg agccttgctc cgcaacttac 240

caactntagc catcaacaaa ctgaacctga aactgatcaa ggaaagacaa tcatcatagt 300  
agaatctttt aaaaagcaga gaaattctag cataatanat tanaatgatc attccanaca 360  
caatanatca aatgtctaga attgacatga tadcattata cgacttcgta gtaat 415

<210> 13789  
<211> 207  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13789

gtataataac catgactcac atgcnctca gaaggcgaat caagacccat aatcctatcc 60  
acgggatgca gaatcccagt gtacacagcg acattagcag aagtacaaga ataatgttga 120  
acattaacac cccactcgtt gaggtgaaga tcaaaagcca acaacgcacg ctggctacag 180  
agaaactcaa tctcatcaat gtattga 207

<210> 13790  
<211> 235  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13790

ttcgagcttc tcgatatgtg atntgcctga atcggacatt cgtgtgaaga gttataaccag 60  
ttgaatttct caagagctgt ctgtgtacag gtttgagcgt ctcgatatgt gattagcctg 120  
aatcggacat ccgtgagaan agttatgacc atttgaatat ctctagatct tccgttgcta 180  
acttcgagcc tctcgacata ttatgcgacc gaatctgaca ttcgtgtgac aagta 235

<210> 13791  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13791

tgtagcanat gcanaccaca atatcttgta gctctgatat ccgactgagt tccgtaatat 60  
atcaagatgn ctcgaaatga ctacagaagc tcttagcana ttataacgac aataactntc 120  
tactcggatg tccgattggg tcacgtaata tatcgagtcg ctcgaaactg aatacagaag 180

ctaagagcaa attcaaacga caatgactnt taactcggat gttcgatnga gtccccgtaat 240  
 atatcaagac gctcgaaatt gtatacggaa gctcgtagca aattcaaacg acaataaatt 300  
 tgaactcggg tggttcgattg agtccccgtaa tatatcg 337

<210> 13792  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13792

gaagatggtg tcatccgcan actggagaat attcactggt accttattct tccctaccan 60  
 aaagctctga aataagtttc tagacactgc ttcctcatc aaacctgtta acccttcagc 120  
 aaccaagaca aataataaag gggccaaggg atccccttgt ctcaatcctc tntgaggctt 180  
 aaattcctca gtcggacttc catttacaag gatggatatt gaagctgatg aaaggaagcc 240  
 tttaacccaa ccaatccacc ttatcatgaa cccattctt ctcatcatat aaaataggaa 300  
 ttgccaggac acagagtcac aagctntntc gaagtccact ttanacaccg agcaagattt 360  
 ctt 363

<210> 13793  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13793

tttatgttgt gaaaaattgg tcacattttg actttgcctt aaagtttgtt atttatttga 60  
 attggtgcat ttntattttt gtggcatgct tgtgaaggct tgctaagatg tggaagagc 120  
 tgcagattga gatgggatat atatctgagg ccagacctca agagaggtgg atntactgaa 180  
 atggaagagg atcaaattat acagctacat tcatgtctag gtaacaggta tatatgttat 240  
 atgttctgaa ttgctttgca cccaaaacac anaaagatgg tagattnttg gacattatgt 300  
 gaagaaagcc ttgaaatcaa nggttttaaat tgtggtcgtg ggttcatcac gatccttaac 360  
 actac 365



<210> 13794  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13794

attatatann gggtannnggt tatggtacct atagtatgaa aacttttgca ttngcatttg 60  
 cattctaattg tgggttatgt cattccatca tggacaatct tatgtttcac taacatatta 120  
 ttcttgacct acatataagc aacaaaaaat aaatgatttt taaatataag taaattttta 180  
 ctatttttat cttatttaat gatattaata taaaaatatc tttcaattag ttcagtattt 240  
 attntcaatg aattttttat tcataatatt aaattccaat gaagagtata ttatganaaa 300  
 naattctaaa ataaaaagaa ttaaataata natttacagt tatttaaatt tgtngataaa 360  
 tttgaacgtg gagtttcggc ctgcanacac tatccattac tcattagaat cctaatecat 420  
 aatgaataaa tatt 434

<210> 13795  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13795

cacccganga agacactgac ananacttat actactagaa tggccataat acaaggctta 60  
 taccctatac tactagaatg gacataatac caggcccaga caaaggaata acctattcta 120  
 atatntacaa agataagcgg gtcatactt agcccatggg ctcgaaatct atcctaaggc 180  
 tcatgagaac cctanggcct tnccttggat ctctagccca atctactnng agtcttctat 240  
 ccaatgccc 249

<210> 13796  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13796

cttcactcgg atgtccgatt ccggatcata acatctcgag acgctctana ttgagcaacg 60

gaagctcttg agaaattcaa atggtcataa ctttccacat ggatgtctga ttaagacgca 120  
 taatatatca agatgttcga aattgaacaa cgaaagctct cgagaaattc aaatagtcac 180  
 aacttttcac tcggaggtcc gattcatgcg cataatatat caggacggtc gaaatngaac 240  
 aacgaaagtt cttgagaaat tcaaattggc ataactntta acccgataa ccgatttaga 300  
 aacatcacat atagagaagc tcgaaatgaa caacggaagc tctcgagaag ttcaaattgg 360  
 taaaactntt caacggaggt cccattcggg cgcataatat atc 403

<210> 13797  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13797

tatgacgttg tacgtcagcg atttgaagga gagacttctt atgatcctgt tgtcacatta 60  
 tcaacattta gttatttgaa ggaagaaaaa tattctacgt tttgtatcac tatattagtc 120  
 gtattgatca atagttgttt atatattnta ataaaatgaa taactttctca ccttanaaat 180  
 aatttaaatt atttntaata tttaattgta catattaaat taatatgaag aanaaattat 240  
 tanataaaat aaatataaaa atttacctta atttaattt actatctatg cacaaatnta 300  
 tttattttta taattagnnta ctgtaaaata ttttcttgga aaaattaaat taaattcatg 360  
 actctaaagt tataaaataa tataatataa tatgaaaatt anaaaaatat atcaaacata 420  
 gatatatata tatatatata tatttagtta tgtatatcta tatctatata tatatttata 480  
 tatatatata tatctatata tatatatata tat 513

<210> 13798  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13798

gctctccttt atctcttctt agtgagctat gatagttctt ttgttgcacc ctagctatcg 60  
 tgatgagcct atataatata acctatgcta tntagtggca aaaaggatat gagactaaac 120  
 tactggttat taaactntat ccctaagtaa caaggattgc tagggattta taaaagcata 180

aagctcagaa gtgtgccttg gtgacttggt ggatcatgagt tgaatccgg aaacagcctc 240  
 ttgcatatg caagggttaag gctgcgtaca acatccctcc cccatacctt cgcatagcaa 300  
 agagcctccg ggcaatgggg tacgaagttt ataaagctca gaagtaatac tgtcccaaaa 360  
 tcttaatttg acagaaaatt atccattgat gcaaatcaag atacattaac tat 413

<210> 13799  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13799

ctagcgccat atgcttctat ttttagtcct ttgataaggc taagcgtagc tgttgcgcta 60  
 agcccttggt atgtgttaag gaggttgagc taagcgtagc ttgctgcact aagctctgtt 120  
 ggatcaagtg gcctcggaat aattaagaag ggggggttga attaattatt aacgaacctt 180  
 tactaattaa aaatctatcc ttcttaatgt taccaaaagt aaaagcaata ataaactgca 240  
 caacaaatat taaagagtgt agggagaag aaacaaacat aagagtttta tactgggtcg 300  
 gcaacaaccg gtgcctacat ccagtcacca agcgacctgc ggtccttgag atttctnttc 360  
 aaccttgtaa agtcctttac aagcaaagat ccacaaggga tgta 404

<210> 13800  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13800

gatgttcaca tgcaggcagc tgcattcgaa gctgaattac tctataagaa tctcacggtc 60  
 atgaatgaga cgtgaatgta tcaacaaac gaaaccatta ttgagaagta tggcaatgca 120  
 ctcgatgatg acaaacttcc aagagaactt ctgctgggcc aaagtgacaa gcaagatgag 180  
 tctgatcgtg cangtataat tattaagggc catgtaagat atgcattcta aatctttacg 240  
 gtgcagcata tgtatataaa tcttaaatat tcttcttgag agtgtattgg cagtgggatn 300  
 tcatacatga tctagcaaca tatt 324

<210> 13801

<211> 251  
 <212> DNA  
 <213> Glycine max

<400> 13801

ctcaactatg cggcaatatt acaatagacc tcctcgacct cagcagcgat atctaccaca 60  
 gcagaacaat tatgaccttt ccagcaacag atacaacctt ggatggatga atcaccctaa 120  
 cctcagatgg tccagccctc agcaacaaca atagcagcct gctcctgtct tccaaaatgc 180  
 tggtggccca agcagaccat acattcctcc accaatccaa caacatgaac aaccccagaa 240  
 acagccaaca g 251

<210> 13802  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13802

cttcctgaga agcttctntg agaaacttcc ttgagaagct agagcttagc tacactcact 60  
 catctaanaa ctaagctcgc ctcttgaga agctagagct tagctacaca caccatcta 120  
 aaaactaagc tcacctcctt gacaaaatac atganaatcc aaaaaaaaag tccctactac 180  
 aaagactact canaatgccc tgaaatacaa ggctaaaacc ctatactact agaatggcca 240  
 aaatacaagg cccaaaagaa ggaaaaacct attctaatat ttacaaagaa gagtggatcc 300  
 aaccttgacc catgggctca naaatctacc ctaaggctca tgagaacctt anggccttcc 360  
 cttggatctc tggcccaatc tacttggagt cttcta 396

<210> 13803  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13803

tctggtggga catctngact tgttttccaa tctgacattc accactgatt ctgccttctt 60  
 ctantttcag attgtgaatg cctcttacag cacctttgtc aatgattttc ttcatgcctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattttct ttggagaata 180

gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctctgac 240  
 tgctgccctt cattaggact tcaactcttct catttgtcac caagcattct gactntgtga 300  
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttc gcagtcagtc 360  
 ccttcaccag cagtactttt gtca 384

<210> 13804  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13804

atcgagacac tcaagagtgg aaaacagacg ctcacgagaa attcanatgg gtataactct 60  
 tcaactcggat gtctgattca cgcgcataat atatcgagac cctcgatatt gtacagggaa 120  
 gctctctgcc aatcaaacy accataacat ttgactcgaa tgtatcatcg acgcncacga 180  
 tatttcgaga cgc 193

<210> 13805  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 13805

actattcaca cggatgttcg attatggcga atcacatctc gagacgctaa atattgaaca 60  
 gcggaagctc tcgagaatat caaatggtca ttaactttaa cactgagttc cgattcagga 120  
 ttataatata tacagacgct cgacataaac attggaatgt ctcgagaaat tcaattgggt 180  
 atcactcttc acacggatgt ccgattccgg cgtataatat gtctacacgc tctatattga 240  
 acaaccga 248

<210> 13806  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13806

tgatgtntgt gttgaatgca ttaaaggtaa acagaccaa agcaagaaat taagtgcaca 60

tagggctaca gacgtcttgg aattgataca tatagacatt tgtgggcat ttcatacacc 120  
 ttcattggaat gatcaacaat attttatatc attcatagat gattactcta gatattgctga 180  
 tgtgatcttg actaggagcg gatcgcttga tacaggctac agagaatttg gatgacgtca 240  
 cttccagtga aggaagataa gtcagggtag acgccacaag gattaccttg ataagtctga 300  
 gattgggttca acaaggaacc caaagagaag ctctcaccaa attntatgaa aattccaata 360  
 gtcctttcat tgaaaacaaa aaccaatact tatagtgtat ctgaacaaaa agataaaaaat 420  
 agacatgggc cttcaaaaca gtttgggcca aaanaattat atataaaaaa atagaacata 480  
 tttattat 488

<210> 13807  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13807

agcttagccc tagaggggat ggaccttntc aggttntgga gaggggtcaat aaaaatgcct 60  
 ataggttga cctccagat gagtatggaa tcaacaccac ttttaacatt tcttatttaa 120  
 ttccttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaact 180  
 ctcttcaagg ggaagggat gatgcaatcc tccctaggaa gggaccagtc actagagcca 240  
 tgagcaagag gctccaacag gattgggtta gaactgctga agaaggcctt angattctca 300  
 tgaacctcaa ggtaaatttc ttagcccatg agctaagggtt gggccaatt atctttgtac 360  
 atattagact aggatgtcat tatatntggt ccttgtattt agggctccat aatgtaggta 420  
 gggtacccta gaagtat 437

<210> 13808  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13808

agctnntaca aaaaaccaca cttatgcctt agtttctctg ccaccaaga ggaaagtgt 60  
 ggggtgctag tgggttttca taatcaaaga aaatccagat gggtcagtca acaagtataa 120

aaccatttta atggctaaag gctttcatga agtagttggg ttgatttta atgaaacatt 180  
 ttctcctatt gtcaagcatg taactattag aatagttctt gcttttgcca tcacttatca 240  
 gcaggagatt tttcaattgg gtgttgataa tgcattcctc aatgggctac ttgaagagga 300  
 tatctttatg caacaacctt ctggttctga gcatcaaat aagacattag tctgcaaact 360  
 caacaaggca ctttatggtc ttaaac 386

<210> 13809  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13809

agctngcctt gcccttgat atatttgagg gactcatggt cactatgaat gacaaattcc 60  
 ttgtgataaa ggtagtggtg ccatgttttc aaagcccgta ctaaggcata caactcctta 120  
 tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180  
 tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240  
 aaagattttt gaaagtttgg caacgcaagt atggggacat tagttagctt ttgcttaaga 300  
 acattgaaag cttcttcttg tttctctccc caattgaaac caacattttt cttgagcact 360  
 tcattgagag gtgctgcaa tgtgctaaaa tccttcacaa atcgtctata aaaacttgct 420  
 aagccatgaa aactcctcac ctcggtcaca 450

<210> 13810  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13810

ggcttctaca tctntggcaa ggcattgcat ctctctgtat agagcacana gcctactggg 60  
 ctgtaaagac ttgcaacttc tctatggacc aagctagaga agaaaggaag ttgcaactaa 120  
 gtgagctaga tgagatccgt ttagaagcct atgagaattc caaattctac aaggagaaga 180  
 caaggaagtt ccatgacaga ttcataagcta agaaggactn tgtggttgga caaaaagtgtt 240  
 tattgtataa ctctaggctc ggactcatga gtggttaagtt aaggtcaaag tggattggtc 300

cttttgtggt gactaatggt tttccttatg gtacagctga gatcaaaagt gaatccacag 360  
 atacaagctt caaggtcaat ggacaccaac tgaaccatt cctcaciaat cctccttag 420  
 tggatgtagt ggtggaggag acctccttac ttcacctac ttctttctca ccatgactc 479

<210> 13811  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13811

ngaatcatgc agccactnnt gctttcaatc cactgcttaa atatccaaaa tacacctgca 60  
 acttctgact tagacttgag aaagtaaadc caacacattc tagtgaaatc atctataaag 120  
 atgatgtaat atttactttt ttttaagcaaa gtagtccttt gaggttcggc caaatctgtg 180  
 tgaatcaatt gcagcttctc tgttgctctc caggttgatt gtttgaaggg taatcttgct 240  
 tgcttgccat attggaatgc ttgacaacat ggtaatttag aatctaagtg aggtaagcca 300  
 tgaaccaact cctttcgttt catgttcaac acagttgcat gatgaaaatg gtctaactct 360  
 ttgtgccaag cttctgtact atttacagta gctggatagg ctgcttgctc ctacttcagt 420  
 gggttaaatg agaaaatttt gcctctcact ttgatactga aaatttcctt gtcattgaca 480  
 tctttaatca aacagtgcctt at 502

<210> 13812  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13812

gctgacttcc ttnagtaggg aatctatcct tctaagatg gagccaaacc cagtcaccct 60  
 cattaagaat tagctctttt cttcctctat tgcctttagt tgaatacacc ttttttgggt 120  
 tctctatata gttcttaacc ctctcatgta acttctttat aaactctaac cttgattccc 180  
 cttctttatg tataaaagaa gtgtcaagtg ggaggggaat gaggtctaac agtgtttagg 240  
 gattaaacct atagacaacc tcaaaagggt actgcttggt tggctctatga acccccgtgt 300  
 tataggcaaa ttctacatga ggaagatact catccaaga cttac 345



<210> 13813  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 13813

acggaagttc taagacaagt cagacgacaa taacgactga ctcggatgta cgatatagta 60  
 tcgtaatata tcgagacgct cgtaattgaa aacagaagct ctgagcacat ttaaacgaca 120  
 ataacttttg actcggatgt ccgatttgtt cccataggat atcgagacgc tcgtaattga 180  
 aaacggaagc tctgagagaa atcaaagac aataactttt aactcggatg tccgattgag 240  
 ccttgtaata tatcgagacg ctcgagattg taaacggaag ctctaagaaa agtcaaacga 300  
 caataacttt tgactcggat gtccgatata gtctcgtaat atatcgagac gctcgttaatt 360  
 gaaaatagaa gctctgagca aattcaaagc acacataact ttgactcggg tgtccgattg 420  
 tgtcccgatg gatatcgaga cactcgt 447

<210> 13814  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13814

agcttctgtt ntcacttacg agcgtctcca tatattacgg gactcaatcg gacatccgag 60  
 ttaaaagtta ttgtcttttg acttttctta gaacttccgt tttcaattat gagcgtctcg 120  
 atatattaat aggtcaata ggacatccga gttaaaactt attgtcgttt gattgttctc 180  
 tgaggatgag ttttcaatta cgagcgtctc gatatgctac gggactcaat tggacatccg 240  
 agtgagaagt tattgtcggc cgaattctct ataacatctg tgttcattac gagcatctcg 300  
 atatattatg ggactcaatc ggacattcga gttaaaagtt attg 344

<210> 13815  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13815

tattgcaaga agagatggat agcagaagac tttatgtagg tgagtattgg aaaattgcaa 60  
 ggagaaatga atccccctta cctcaaaaat caagaagtag gtggataaag gaaggatgatg 120  
 gtaatacaaa gtitttttcgt ggtgtcataa attggaagag aaggaagaac aacatcaaag 180  
 ggatttccat caaaggaaga tgggaggagg aaccaagact tgtgaagaaa gaggtggttg 240  
 aattttatca aaaaatattc tatcaagaag catggatgaa accatgactt gatggcatgt 300  
 ccttcanaca cttgnngggtt ggtgacaatg attcactttg ttgttggtttt aatgaatggg 360  
 agataaaana ggcaatgtgg aattgtgaag gtgataaaag tcatgggtccc gatgggctca 420  
 attataatct tataaagaga tattangaca ctatg 455

<210> 13816  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13816

agcttccatt gttcaatttc gagtgtctcg atatattatg cgctgaatc ggacctccga 60  
 atgaaaagtt atgaccattt gaatttctcg agagctacct ttgttcaatt tcgagcgtct 120  
 cgatatatta tgcgcctgaa tcggaccccc gagtgaaaag atatgaccat tggaatttct 180  
 cgagagcttc cgttgttcaa tntcgagagt cttgatatat tatgcgcatg aatctgacct 240  
 ccgagttaaa agttatgacc agttgaattt ctcgagagct tccgttggtc aatttcgagc 300  
 gtctcgatat attatgcgcc tgaatcggac ctccgagtga aaagttatga ccatttgaat 360  
 ttctcgagag cttccgctgt tcaatttcga gcgtctcgat atattatgcg cctgaatcgg 420  
 acctccgagt 430

<210> 13817  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13817

agctntcncg ctctatgatc ttatgtggct tcctctcaaa ctcgccatac gaggtcgcca 60  
 gggtgaaagg ctcatgattg aacctttata ttgtatcttt tgggttgcaa cttcttctct 120

aatccttgtc atttcttggga ctttatcaat gatttcaagt tccaccctca tattttcttc 180  
 atttttttgt tgctgaaata atagtctcta tgcgatgat accccacctt ctatggggat 240  
 catggtgtct gtgccatatg taagttggta atgagtttca ttggtggctg tttaggggtg 300  
 acaatggcac gcctagagta tgtttagag ttcttctttc cataagcctt tagacttgtc 360  
 aagtctagta cgcagggccc tgagaatgac tcgattagtt gcctctgcat gtccgttatt 420  
 ctaaggatgt tcaac 435

<210> 13818  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13818

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 taaatagtta ttgtcgtag aatttgcctc cagcttctgt tctgaatttt gagagtctcg 120  
 atatactacg gaacacaatc ggacatctca gtaaatagtt attgtcgttt gaatttgctc 180  
 agagcttctg ttcttaatta cgagagtctc gatataattac gggattcatt cggacatcca 240  
 agtaaaaagt tattgccgtt tgaatttgct caaagcattc gttgtcaatt acgagcgtct 300  
 agatatatta cgggattcat tcggacatcc gagtaaaaag ttattgtctt tttattctgc 360  
 tcatagcttc tgtttcaatt tcgagcatct tgatatatta caggactcaa tcggacatcc 420  
 gagtcataag ttattgtcgn ttgaattngc tatgagctat cggtttcctt acgagcatct 480  
 aatatgcta 489

<210> 13819  
 <211> 499  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13819

ntactatgca gagaatatcc aagggaata cttcatctg acttagcatc aaatnttcct 60  
 aagttatctt ttccattatt caatacaaaa catttacaac caaagatatg aagatgtgag 120  
 atgtttgggtt ttctgccatt gaacaattca tatggagttt tctttaaaat gggcttatt 180

aaagccctat ttaaaatgta gcatgcagtg ttaatggctt cagcccaaaa gtatttttga 240  
 aaaggagtat catttaataa agttctagca atctcttcca aagatctatt ttctctttca 300  
 acaacaccat tttgttgagg ggttcttggt gcagaanagt tatgctcaat cccatgctta 360  
 tcacaaaata attcagattt nttattttca aactcacccn catgatcact cataatagat 420  
 ataatcatta gattnttctt attttgaatg agttttgcaa gtnttctaaa tgcttgaaat 480  
 gcatcattct tatgagtga 499

<210> 13820  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13820

agcttgtgga tggtgaccaa tcccagagga cttttgtgta tattaaggat gctattgaag 60  
 ttgtcttatt gatgattgta ggttoccata tccaatcttt ttatacaact ttatatattt 120  
 taagttctga ttttctgatt gtagaatttc atctttaaac tattactctt gttggatggt 180  
 tcaactaaat gtgaacgata atttttaaca ggaaaatccc gccagggcca atggacatat 240  
 ttttaatgtg ggaaacccaa acaatgaggt tatagttagg cagcttgctg aaatgatgac 300  
 tcangttaga ggattaagtt tgattgtttg atcctattag aatttcaaca tgggtatttg 360  
 gaccattcaa cattttattt cgttcaattc tgcaggtnta ttcaaaggta agtggagaag 420  
 cacctctgga ataaacctat attgatgtga 450

<210> 13821  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<400> 13821

tcaggttgct taattgctcc aggttgctgc atggaagggc aaaggtctgt atggtggtca 60  
 gcagaggagc acaaaccaca aacccttgcg acaggtacag atttctgatt caaggccagc 120  
 tgggttacca agttgaccaa cgcattcagt ttgccttcaa gcttcttagt ttcagatgat 180  
 gcagatgggt ttgtagctac ctcatgcact cctctaataga ctatggcatc atttctggcg 240  
 ctaaactgct gggagttgga ggccatcttc tcaattaaat ttctggcttc aacaggggctc 300

atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat attactgagt 360  
 ccttcataaa aatattggag aagaagctgt tctgaaatct gatggtgggg gcaactggca 420  
 catagtttct taaatctctc ccagtactca tacaggctct ctccactgag ttgtctaata 480  
 cctgagata 489

<210> 13822  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13822

agcttctata ttgcatgtcc tagttggccc tgacttctcc gttttntttt aattgtggat 60  
 tacagaattt ggatagggca attgaccaca aggcatgtga tgataccttt tctacatttg 120  
 gaaatatect ttcgtgcaag gtagctacgg attcatctgg gcaatcaaaa ggctatggct 180  
 ttgttcaatt tgataatgag gaatctgccc aaaaagctat aaagaagctg aatggtatgc 240  
 tgttgaatga taaacaagtg tacgtgggac ccttccttcg caagcaagag agagaaagtg 300  
 ctgctgacaa ggcaaaattc aacaatgttt ttgtgaagaa tctatcagaa tcaaccaccg 360  
 atgatgagtt gaagaacact tntggttgaa ttggaactat tactagtgtg gtagtaatg 419

<210> 13823  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13823

agctngtctt caacatataa atcaaaatct attttctgat cttctatgcc cagctacagc 60  
 ttctttctcc ccatatcaac tatgcagcta gcagctaaca tgaatggcct cccaatatt 120  
 accggaatgt cattatcttc acagatatcc attaccatat agtctgtcgg gaaaataaaa 180  
 ctgttcactc tgaccagcac atctncaatt actccatatg gtctggtgat ggagcggatca 240  
 acaagttgta aagtcattct agtgggcatg atctccaact ctcccaacct tttgcacatg 300  
 gagagtggaa ttagttaata ct 322

<210> 13824  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13824

ctaagcttca actngcacan aggagttgag caggtaaaaa agattcgtct tcaaactctt 60  
 agaggtgact ttgagcggtt gtttatggag gagtccgagt caatttctga ttatttttct 120  
 cgagtattgg ccgtagtcaa tcaacttaaa agaaatggtg aagatggtga tgaggtgaag 180  
 gtcattgaaa aaatacttcg aactttaaat ccaagttttg acttcattgt taccaacatt 240  
 gaagaaaaca aggatttaaa gaccatgact attgagcaac tcatgggttc cttacaagca 300  
 tacgaagaat aacaaaaaag aanaattaaa caaatgagg ctacggagca actactaaa 360  
 ctcaacgtaa aggaagcaaa ctatgcaaat tacaagagcc aaagagga 408

<210> 13825  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13825

ntacaacana tgccactnta ctccaagttt taaaaggata tgtaacaag gacacacaag 60  
 tatattcacc aggaaaacat tgttgtggaa ggaaattgta gtgtgtgat tcaaagatc 120  
 cttccacca agcataaaga ccctgtgagt gtaaccattc cttgttcaat tggagaagtc 180  
 actatggaaa ggcacttatt gatctgggag ctagtattac cataatgcca ctctccatgt 240  
 gcagaagggtt gggagagttg gagatcatgc ccactatgat gactttacaa cttgttgacc 300  
 gctctattac cagaccatat ggagtaactg aagatgtgct ggtcagagta aaatattnta 360  
 tcttctggc agactntgtg gtaatggata tctgtgaaga taatgacatt catgtaatat 420  
 tgtgaaggcc attcatgtta actgcaagct gcatagttga tat 463

<210> 13826  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 13826

aatttcgagc gtntcgttat attacgggac tcaatcagac atccgagtaa aaagttattg 60  
tcgtatgaat tggcttaaag cttaaacatt aaactttgag cgtctcgata tattactgga 120  
ctcaatcaga cattcgagta aaaagttatt gtcgtttgaa ttggctcaga ggttgaacat 180  
tcaatttcga gcgtctcgat atattatggg actcaatcag acatccgagt aaaaagttat 240  
tgtcgtatga attggcttat agcttaaaca ttcaactttg agcgtctcga tatattacgg 300  
gactcaatca gacatccgag taaaaagtta ttgccgtttg aattggctca gaggttcaac 360  
attcaatttc gagcgtctcg atatattacg ggactcaatc agacatccga gtaaaaagtt 420  
attgtcgttt gaatnggctc ataggttcaa cattcaattt cgagcgtctc gatatattac 480  
tggaactcaat cagacat 497

<210> 13827

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13827

canattcaaa cgaacaataa cttttatctc ggatgtctga ttgagtccag taatatatcg 60  
agacgctcga aattgaatgt tgaaactctg agccaattca aacgacaata actttatact 120  
cggatgtccg attgagtgc gtaatatatc gagacgctcg aaattgaatg ttgaacctct 180  
gagccaattc aaacgacaat aactttttac tcggatgatt gattgagtgc cgtaatatat 240  
cgagacgctc gaaattgaat gttgaacctc tgagccaatt caaacgacaa taacttgтта 300  
ctcggatgtc tgattgagtt ccgtcatata tcgagacgct caaaatngaa tgttgaagct 360  
ctgagccaat tcaaacgaca ataactttnt actcggat 398

<210> 13828

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13828

ccctgagaga tntagtgaac atgtcctcca gttggtcact agagttgaca aactcaatgg 60

tgatttttcc tgagagcact ttctctctca caaatgaca gtcttctact gtgttttagtc 120  
 cattcatgga agaccggatt agatacaatg tggagaacgg cttgattatc gcaaataaga 180  
 ttggtggcctt gagtgtctcc aaattggaac tgctggagaa gtttccttag ccatgtaatt 240  
 tcactttag tagtgaggcat ggcacggat tcagcttcag cactggatct agtgactata 300  
 ttttgtttct tgcttcccca tgggatcaaa tttcctcata taagaacaca ataaccaatc 360  
 atggacttcg tggctgatgg tgagtctgcc taatcagcat cagagtaaaa canatgatct 420  
 tg 422

<210> 13829  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13829

tactactctn tcgtcttggt aggggtgttca caactcattg tgtctcatta acccagtttg 60  
 tttcaagggt aattntgatg cgttcagggt taaaattaga ctctgtatct ttttaagatag 120  
 atttgagtta tgttttgagt catctcaaca tgcattgatt gatgtcttat ttttgtttta 180  
 aaagtattga attttaaata attgtacatc aataataaaa aaaaatattg atagataata 240  
 ttttgtgtac ataataattat atttaattat gatgattnta ttttaatat aatatacatt 300  
 gtaaaatata ttttaacttt ttttaaccaat atgttagttc gagtcgtgtc gagcaaaacta 360  
 gtttgttata taacaaaata tgagaatttg agagtaggtt ttgaagaaat aagtacaaga 420  
 ttactctgaa gtnttacctt aaaatattat tttatccaag tacatgaana ggaaaagttg 480  
 tactcctata agtct 495

<210> 13830  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13830

tatgttgcatt atattacaat agacctctc aactctcagc atctnaatca tccacaacag 60  
 aacaattatg acctttccag caacagatac aaccctggat ggaggaatca ccctaacctc 120



agatggtcca gccctcagca acaacagcag actgctcctt ccttccaaaa tgctgctggc 180  
ccaagcagac catacatatc ttcaccaatc caacaacagc aacaacccca gaaacaacca 240  
acagttgagg cccctccaca acctatcctc gatgaacttg tgaggcaaatt gactatgcag 300  
aacatgcagt tacatcatga gaccatagcc tccattcaga gcttaaccaa tcagatggga 360  
caattagcta cccaatngaa tcaacaacag tcccataatt ctgacaagct gccttctcaa 420  
gctgt 425

<210> 13831  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 13831

tgctcattac ttttactca gaagtccgat tcatgcgcat cacatataga gacgctcgaa 60  
attgaataac ggaagctctc gagatattca aatggtcata acttttact cggagggtccg 120  
atztatgcgc atcacatata gagacgctcg caattgaaca acggaagctc tcgagatatt 180  
aaatgggcct accctttaac tcggaagtgc caatcatgca cattaataac cgagacgctc 240  
gtaattgaac aaaggaaggc cttgagcaat tcaaatgggc ttaacttttc actcggagggt 300  
gcgaatcaag cgcattacat atagagacgc ctgcaattga accacggaag ctctcgagat 360  
attcaaatgg tcataacttt taa 383

<210> 13832  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13832

atatattcaa tatattntat atgttntatt tatgttcattg tttatatttt gataaatgaa 60  
taattctagg tagtataagt caatatattt gatattctttt atttatgtac atgtttatat 120  
tttgataaat gaataatttt aggtagtata agataataat tttgtatagg gctctttgta 180  
ttgttaatgt tatatatgct agattatatt ttgataaata aatagttcta ggtagtataa 240  
gattatagtt tgaattgtta atgttatatg gtagattaga tttagggtta tatgataaat 300  
tangaatact ttacatact ctaagttatt aattttatat ggtagattag gaatattttt 360

aattatgata tggtagatta agtttagttg gaaatttcct tataatagat tagaaataat 420  
 tatagattag ctttagtcta aatgttgtat atggtagaat acattta 467

<210> 13833  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13833

ctgatagcga tgccatttta naaccagcca aacactcctg ttggacctga tctcaaattgg 60  
 agatactttt ggaggatcgg tctctgaccg tcaaatactc gttttcagggt ctcatgcttt 120  
 ctcttttttc ttatccgtaa gacatttgtc ctagttctta aacctaattgt ttattataaa 180  
 tgtacaggaa cttaattgctg agccagtaat acctgaaggt ttcctgaat ggaaagaaac 240  
 tatggattcc tgnngataca aatgatagc agcaattgaa gtcagtcatt ntttttcatg 300  
 ctatttctaa tgtgtggtga tctaaatgtg catatttggt cttaggtggt tgctgaaatg 360  
 gcagctattg ggtttggctt tccaaaggat gcattcactt ctcttatgaa gctgggtgagc 420  
 acatc 425

<210> 13834  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13834

agcttatgct gcanatattt acaatagacc tctctaacct cagcagcaaa atcaacccaaa 60  
 gcagaacaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcaccctaa 120  
 cctcagatgg tccagccctc agcaacaaca gcagcctgct ccttccttcc aaaatgctgc 180  
 tggcccaagc aaaccataca ttcctccacc aatccaacaa cagcaacaac cccagaaaca 240  
 gccaacagtt gaggccctc cacaaccttc cctcgaagaa cttgtgaggc aatgactat 300  
 gcagaacatg cagtttcagc aagagaccag agcctccatt cagagcttaa ccaatcagat 360  
 gggacaatta gctaccaat ngaatcaaca acagtcctag aattctgaca agctgccttc 420  
 tcaagctgtc canaaatcca aaaat 445

<210> 13835  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13835

ggatgcctcc taccactgtt tatgatgcaa tgaagctgag ttatgatgat ctagatcgta 60  
 aagagcaaca actttttcta gatctagcat gtttctttct tagatcacat ataatagtaa 120  
 acgtgagcaa tgtaaaatct ttattgaaag atggtgaaag tgataattca gtgggtgttg 180  
 ggttgaaag gttgaaagat aaagctctta taactatctc cgaggataat tgtatatcta 240  
 tgcattgattg tttacaagaa atggcctgng agattgttcg tcgcgaagac cctgaaagtc 300  
 gtagttggtt gtgggatcca aatgatgaca tttatgaagc attggaaaat gacaagggtta 360  
 aataccagct acatataaca atttttgaat cacgtagaa tttgtttttt gcaagaaaaa 420  
 ttggctttga tgattaatat tttgcttcta cattgatgca gtgtactgag gccattataa 480  
 gcatacgaat tca 493

<210> 13836  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13836

tgtcactcta ctcataatct ctgaaagata tgttgaggag gaaaaacaga tacatccacc 60  
 aggagaatat tgctggggaa gacaactgca atgctgtaat atagagaatt cttccaccaa 120  
 aacagaagga ccctggaagt gttactatct attgttcaat cgggtgaagtc actgtgggaa 180  
 aggctctcat tgatttgga gccagtatca acctaatacc gctctccgtg tgtaaaaggt 240  
 tgggagagtt ggaaatcatg tccacgagaa tgactttaca acttgctgat cgatccatca 300  
 caagacctca cagggttaatt gaggatgttc tgataagagt gaaacatatg gtctttccag 360  
 ctgattatgt ggtcatggat gtggaggaag tcattntggg atgtcccttt atgtcaactg 420  
 caagctgcat aattgatacn ggaagaaaga cactggagat 460

<210> 13837  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<400> 13837

tatgaagagt tcttgacgat gctagttgtc aagcaccttg tgacttctgt cgaatatccc 60  
 tagaccaaca atcaggagaa ggcagcaaac agagttatcc ttaaggcctt gcgcacaaga 120  
 catgacaagc ccaaggggtct atggaaggag gaactcccca gcatactttg ggcttatcat 180  
 tgttcgcttc agacaacaac caatgaaaat cttttctgac ttacatacga cacaaacacc 240  
 atgatcccca tcgaagttgg ggagccatcg acaaggagga tgtttttcca ggaacaacaa 300  
 aataaagaaa acatgagggg ggaactagag ataaagcaag cctagacaac agagcataca 360  
 tgctacatga actagatggg taagtaattc caagaacatg gaatgctacc catctaaagt 420  
 tttacttcag ttaatcgact a 441

<210> 13838  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13838

agcttctata ctntgtacaa gaatgaagct cngtttccac ttgtagaca agtggcctca 60  
 gatattctaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120  
 tctatttcac tttntactca agttatgaat tcccttaatg acaatcttct taaatattaa 180  
 ttcaaacgaa gcaacttgaa tatgaatata aagcaataat aaataaaaga gattaaggga 240  
 agagaaaatg caaactcagt tttatactgg ttgggccaca cccttggtgcc tacgtccagt 300  
 cccaagcaa cccgcttgag agtctcacta acttgtaaata tccttttaca agttctaaac 360  
 acacaaggac 370

<210> 13839  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13839

agctngcatg atgggagcct ttctccttct cctttgagtt ttactcagcc aagtagtaat 60  
 cttcctctgt gacctttnta gatgaaggac cagagaacat gccaccccat tggggaaagt 120  
 agattaagca tattggcagg ctgcatatta tgatcatggc tcccattaga gtgattcctc 180  
 tttcttttga aaacctggat cctttgaaga aaattaggtg ggtgacaact gctcccacgt 240  
 tgccctcctcc tctgttcatt ccagatataa ctctaataga cctgaaaatg catattgtta 300  
 gaattaatca caaaaaaatt atttagatag gatntgggtg gataaatctc tctagaagta 360  
 cttgtaggag aagaaaataa taagaataaa aagagatgaa tttctccata acgtaaaatg 420  
 aactctacat taattaattt ggagatgtcc tctcatctct tagaagaatt acgagagttt 480  
 tacaatc 487

<210> 13840  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 13840  
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 acaagaatga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120  
 ctcttttttga tgcagatgga ggagccttgg atttgaggac aaattctttt caaggagggga 180  
 gtgatgagga cataaccaat ggcaaggacc atgaagcact tgaagggtccc atgaccagag 240  
 gcagacttaa acaagcccaa cacatcatag agacaaggct ggtcatttgt atagctgtca 300  
 ttgatgatga ttgaaggccc aagtggagaa agatgaaggc ccagaggcag aggcaactacc 360  
 aagactacta at 372

<210> 13841  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13841

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 gagcaattat gacctttcca gcaacagata caaccctgga tggaggaatc accctaacct 120

cagatgggtcc agccctcagc aacaacaaca gcagcctgct ccttccttcc aaaatgctgc 180  
 tggcccaagc agaccataca ttctccacc aatccaacaa cagcaacaac cccagaaaca 240  
 gccaacagtt gaggccctc cacaaccttt cctcgaagaa cttgtgaggc aaatgactat 300  
 gcagaacatg cagtttcagc aagagaccag agcctccatt cagagcttaa ccaatcagat 360  
 gggacaatta gctacccaat ngaatcaaca acagtcccag aattctgaca ag 412

<210> 13842  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13842

agcttagtac tgggaacctg gatgctccat cgttcaactt gtcgatgctn ggcaaagggt 60  
 atgcacacctt gggacacgcc cgggtgagat cgggtgtagc agtgcacatc caccattttc 120  
 cattggcctt ttttaccatg atgacgttgg cgagctaggt agagtgcctg acttctctga 180  
 tgaaattgtc tttgaggagc tcatctactt cctatcttat ggccttacat cattcttctc 240  
 ccactttact cttcttttgt gatactgggt tggcctangg acaaattggcg agcttgtggc 300  
 atataatgct agggtagatt cttggcatgt tagatggctg ccacgcanac aggtctacat 360  
 tatggtgtaa gacatcaact atgcactgtt gttcat 396

<210> 13843  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13843

atctctgagt cacctgcggc atgcaagctt ctgttntcaa ttacgagcgt ctccatatat 60  
 tacgggtctct aatccgacat cggagtaaaa agttattgtc gttagaatnt gctcagagct 120  
 tctgttctga attttgagag tctcgatata ctacggaaca caatcggaca tctcagtaaa 180  
 aagttattgt cgtttgaatt tgctcagagc ttctgttctt aattacgaga gtctcgatat 240  
 attacgggat tcattcggac atccaagtaa aaagttattg ccgtttgaat ttgctcaaag 300  
 cattcgttgt caattacgag cgtctagata tattacggga ttcattcggga catccgagta 360

aaaagttatt gtctttntat ttgtctcaga gcttctgggt ttcaattcga gcatcttgat 420  
atattacagg actcaatcgg acatccgagt c 451

<210> 13844  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13844

agcttatggt ctcaatttca agcgtcttga tatattacag gactcaacct gacattcgac 60  
ttaaaagtta atgtcgtttg aatttgctac gagcttccgt tttcaattac gagcgtctag 120  
atatattact ggactcaatc agacatccgn gtaaaaagtt attgtcggtta gaatttgctc 180  
agagctttcg tcttcaatta cgagcgtctt gatatattac gggtttcatt tggacatccg 240  
acttataagt tatcgtgggt tgcatttggc cagagcttct gttctatatt tcgagcgtgt 300  
cgatatacta cgggtcacaa tcggacatcc gaacaaaaag ttattgtcct ttgaatatgc 360  
tcagagctnt tgctatcaat tctgagtgtc tggatatatt actgcacata atcgaaca 418

<210> 13845  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13845

agatctctga gtcacctgag gctgcagctt aaggatgagg actacccttg gttcaatatc 60  
atggcttact ntaaggccac gggacaacca ccagaaggta tgaaatttca caagagaatn 120  
aggttcttcc aagaagccac caagtatggt tgggatgatg ttattctttt tcgcattgcc 180  
tatatatttt cgtattgggt ctaacaattt gttaattgat gtgtaacaaa gggagaagtc 240  
accatataga ggccacttca acaaagagag aacaactaca aagatccttc gagcttgatt 300  
ntattggcct acattcttca aagatgctca taaccatgca tgatcatgcg atagctgtca 360  
aagaatcaac gacatatcta gacgacatga aatgtcatca cataacatgc aagaggcata 420  
agtctttga 429

<210> 13846

<211> 475  
 <212> DNA  
 <213> Glycine max

<400> 13846

acttaaactc cttcatctgc acaaggctta taatatttga agagtatcca tgtggtacct 60  
 tcacctgacg aaaacactga caaaaacata tcttcttctt cttggacaga gtatggctag 120  
 ctgagggcaa gtaaattatc tttccatcag accttgggag caactgtgct cttataccca 180  
 tatcaactat atattgacgg gtttttaagc catccttcgt gatgccttga atgttaaaga 240  
 gcgtaccaga cacttgaca caaacatctt tgtccacatg cataacatca atacaatgtc 300  
 taacgtcatg atctcaccta tacggaagat caaagaaaat ggacctcttc tacatatgca 360  
 actctgactt tgatccttct tgtgggcgtt ccaacaacaa tgttcatgag ttgaagccgc 420  
 tgatatacct gttcacaatc aacgggatcc gcgcaataaa tgcttttgac ttcac 475

<210> 13847  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<400> 13847

agcttaacaa attgactaga aaaagttatt gatttaatga caccctaaag tgaatgctag 60  
 ctttctgac tttttctat aatataaagg tcaaatgttt aacactgtat ctcgaccgta 120  
 tataaatgcg gcacgaaatg atatgtaaat acacttggat gaaaaacaac ttcataaaat 180  
 aacatcctcc taatgatgtc actgtattac cgtaatatct tattcaaaac ataaaataga 240  
 tatgctgaat gattcttaat tttgtaagtc aattaaatat taacttaact acaaaccga 300  
 taaactcgtc caaaattaaa agaataaga taaacgtgat taaagaagat cacaataatc 360  
 ttttaatat taatttatcg gaaaaaaaa agttttttta cagagaagtt tattttatct 420  
 actttgcaat taaagaaata attatggagt aattaagtgc acttttacag tttagtcatt 480  
 caatagaaaa tgaataaaaa gatttttaat tgtaataaaa aagggaattg aataccata 540  
 atgttcggag cttgatatgc acta 564

<210> 13848  
 <211> 512  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 13848

tggatattnt aaaaaatata tatgaattgt tatccataat attatccatt ggtaattaa 60  
taactatggt tattcaaatt atttatttag agaattataa taattagttt aatattggaa 120  
ggcttaaagt aaagactttg attccttgag ttggcccat gagttgggct agttaaagc 180  
taataataaa gctatgtag aatcctaata ataagtaa atgtacaaa acttaaaata 240  
ttgatatgaa ccaacaagaa ttttaagtatt aaacttaaaa tagatcaggt atgttaaatt 300  
cacggtaa atgcaggagca tgcgatagag gtgctattgt gattgataac aatgactaca 360  
ataggaacca caaatatacc tcatgacaac caggatcaat gcctatcaag accaaccatt 420  
gccagtacta ttttatatgc tccatttcac ttgtaaatta tgtttaacag ttccaccag 480  
tgcgaaagct agataacca aaagccttat gc 512

<210> 13849

<211> 525

<212> DNA

<213> Glycine max

<400> 13849

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tactcgcgaa aacatgggtga tcctgtatgt cccagttaca atcatagtcc ctataacaca 120  
tccacggctt caaacccaag tagtgtatgg tgtacacgtc atcaaggagc tcgtgcttat 180  
tcccataacc aatactacga aaagtcgtga gctgattcac cttggccggc aaacggtgcc 240  
accacgtgaa gatctcggtc agaaaaccct ggtcgccgcc gttgtaagaa cgcaccttgg 300  
aagtcatggt catcattctc tggaacatgc attgcgacgg ctcgattacc atcgaccccg 360  
agttgaataa cgctttctcg ttaggtgctg cggataattg acggagcatg aataaatggt 420  
cgatgcttct gagaagtaag aggttggagt caataatgaa gatgatcgat tctgtcgtac 480  
gttgtagagct gccacattcg tagcatgctg gttgtatgca cctt 525

<210> 13850

<211> 410

<212> DNA

<213> Glycine max

<400> 13850

agcttttttat ttttagtaga tgaagatgaa tctgtggcca cctcatggac tcctctaagg 60  
ataatagcat catttcttgc actgaattgt tgggagttgg aagccatctt ctcaatcaaa 120  
ttcctagctt cagcaggggt catatcacca agagctccac cattggcagc atcaatcata 180  
ttcctatcca tggtgttaag tccctcatag aaatattgaa gaaggagttg ctcaaaaatc 240  
tggtggttag gatagcttgc acacaatttc ttgaatcttt cctagtactc atacaagctt 300  
tctccactaa gttgcctgat gcctgaaatg tcttttctga tggcagtggt cctagatgca 360  
gggaagattt tctccaagaa caccctctta aggtcatccc agctgaaaac 410

<210> 13851

<211> 561

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13851

tcttggttgg aaagaataag gaacctatca acattttaca gtatgctgat gatactgttt 60  
tttgtggaga ggctgtgtgg gacaacattc atgttattaa agccttatta aaaagatatg 120  
aattagtttc tggtttaaag attaatTTTg ctaaaagtca gtttgggatt attggtggtg 180  
gtgtcaattg ggctttggaa gcagctaata ccctgcactg ccgacagctg gagtatcctt 240  
tcctctattt aggcatacct attggggcta atccctcaag ccagctggtg tgggagccta 300  
tcatcactaa attcaagtca aaattagcca aatgggctca gaaaaatata tccatggctg 360  
ggaagaatac tctgataaat tctgtcctca atgcctccc caattatctc ctctccttct 420  
ttaaaatacc tcaaaagggt gtcaaaaaac tgatatccct tcaaaggaan ttttctgtgg 480  
gtggagacaa tgatcataaa aaaatccttt ggtgaaatgg gctgatattt gtttgcctaa 540  
gactgatggg ggactgggga t 561

<210> 13852

<211> 516

<212> DNA

<213> Glycine max

<400> 13852

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aagttattgt agtttgaatt tgctcagggc ttcggtattc catttcgagc gtctcgatat 120  
attacgggac tcaatcggac atccgagtaa aaagttattg ttgtttgaat ttgctcagag 180  
cttcggtatt ccatttcgag catctcgata tattacggga ctcaatcaga catccgagta 240  
aaaagttatt gtagtttgaa ttgctcagg gcttcggtat tccatttcga gcgtctcgat 300  
gtattacggg actcaatcag acatccgagt aaaaagttat tgcggttga atttgctcag 360  
agcttctaca ttcaatttcg agcttctcga tatattacgg gactcaatca gacatccgag 420  
taaaaagtta ttgctgtttg aatttgctca gagcttcaga aatccattta gagcgtctcg 480  
atatattaca ggactcaatc agacatccga gttaaa 516

<210> 13853  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 13853

tgctttatgg gaagagaggg gtctatTTTT attcccagct gcaggaacac ggtggagaga 60  
tattcgaaag agatgggata ttatacgact gtgccttctc tgcttgtgac caagggctag 120  
gactgaatga gctatagtat gaagaccaac ttcattttta gtcaataatg acatttataa 180  
aacaactata ctaattggcg gtgttaattt ggggcagcta ttgcgtcatg caactgatcg 240  
gtgtcccata taaccttttg catctgtact gtaaaaaagg gagagctggc gatgatccac 300  
atgcagagga gcaatgagaa gagtgtgaca atgcggatgg tgctctgaaa gaattgagag 360  
gctctttt 367

<210> 13854  
<211> 483  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13854

tgcanaaagt gaaaatgaag cctcagctga tggaaccttg ttcatacaaa ttgttggtag 60  
nctaaaattc atctgccaca acaaaccaga gatcacattc aatgttggac tggtgagcag 120  
atztatgggt gaccctaagc aatcacactt gctggatgct aaaagagtca tgaggtatct 180

aaaggggaca ttgggatatg gaatcatttt ccctcatcaa accaaagagg atgataatct 240  
 acatcttgta gcctattcag actctgattg gtgtggagat ttggttgata ggaaaagcac 300  
 tgtgggacaa gtattcctac tgtctggctc tcccatatcc tggaactcaa agaagcaact 360  
 agtgggtggca ctatcaactt gtgaggaaga atatattgca gcttggtcag ctcccttgcca 420  
 agcactgtgg ctttcatect tgattaatga attgaaagta tcttcgaatg aagttgttga 480  
 act 483

<210> 13855  
 <211> 583  
 <212> DNA  
 <213> Glycine max

<400> 13855

agcttgctta agttcgaata ttgatttctt taatttgcac accatgtgtt ccttcccttc 60  
 aactgagaat cctattggct ggtccatgta aacattatcc tctaaatctc cattaagaaa 120  
 gataattttc acatatattt gatgtagttc taagtcataa tgagctatca gtgtcatgat 180  
 aatcctgaag gagtcatttc gtgaaactgg tgaaaatgtc tgtaaatcaa caccatttct 240  
 ttgagtaaaa cccttagcaa caagtttgac cttgtaatgt ttaacgtttc catgagggtc 300  
 atgttttagtc ttaaagaaca acttacaacc aactctctta caatcttcta acaattctac 360  
 aaggaccaa acaccattct gttccatgga tcttaactct tctttcatgg cttccaacca 420  
 cttattagaa ttatcacaac ttatagcttg tgaaaaacaa actagatcat cattaataat 480  
 gcttaattaa tttctaata tgtggatgga ccacatactc atttgaaata attggccttc 540  
 attctcgttg agacctcta aatgtacttc ttttgattct tct 583

<210> 13856  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13856

agcttggttca tcttgagata ataggtgttt gtccctcattt gaagntgatg gtgcaacata 60  
 tttctttggc ctaacaggaa ctccaatatt ttacagctt ctaatgttat gattgggttg 120

gccacacctt tcacatgtaa agtcagccaa ttttctcttt agcctatgtc ctgtgacatt 180  
gtcctcatct accgatctcc ttctatTTTT ctttggcctt cctctttgta cccttttatg 240  
tggaggaata aggtgtgtat attgtgtctg ggcccaatat tgcggtcctt ggactggctc 300  
aataaaatgc tggatatgtct tataataagc ttctattgac agtcactcat gacacatgtc 360  
ctcaggcttc ctttctttgt gagatattgg tgcaatggca tgttggcttg tcatccctac 420  
attaaagttg gaaaataatc acacatgtag gttacgaatg aaaaaaaaaa ctgtaaagaa 480  
cac 483

<210> 13857  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 13857  
tctgttttca atttggagcg tctcgatata ttacgggact caattttaca tccgaatata 60  
aagttttctt cggttgaatt tgctcagagc ttctgttctc aattccgtgc gtctcgatat 120  
attacgggac tcaatcggac atccgagtaa aaagttattg tcgtttgaat ttgttcagag 180  
cttctgtttt caatttggag cgtcttcata tattacggga ctcaatcgca catccgaata 240  
taaagttatt ttggtttgat tatggtcaga gttctgttc tcaatttcgt gctcctcaat 300  
atattacggg actcaatcag acatccgagt aaaaagttat agtcgtttga atttgtcag 360  
aacttctttt ttcaatttcg agcgtctcga tctattatgg aactcaatca tacatccgag 420  
ttaaaagata ttgcgggttg catttgct 448

<210> 13858  
<211> 576  
<212> DNA  
<213> Glycine max

<400> 13858  
agcttggatt cctcaaatgt acaactaagc atggtgttta tataaagggc agcaatacta 60  
ctaacttgac tgtagtgtgc ctgtatgtag atgacttgct tgtgacagga aataatgaga 120  
ttgaaattgc caactttaaa ggagagatga tgagagaatt cgaaatgact gatttggacc 180  
ttatttctta ttttcttggg attgaattca agagaactga tgagggagtg atcatgcac 240

aagggaggta tgcaagagat gtactgaaga agttcagaat ggttgactgc aattctgcag 300  
 acacacccac tgccactggt gtgaacttgg tgaaagatcc taatgaagaa gaagtagatg 360  
 taattttgta tagacaaatg gtgggctcac tgaggatatct tttgttacta gacctgactt 420  
 attgtatggt gttggcttaa ttagtagata tatggagaat cctaaacttt ctacttctg 480  
 tgctgccaaag agaataatga ggtatgtgaa aggtactctc gattattgta tttctgtttc 540  
 ccagtgtgc caaaaaaagt aatggtctgg ggatat 576

<210> 13859  
 <211> 582  
 <212> DNA  
 <213> Glycine max

<400> 13859

tgtgtagagt tgtcacagac aaagggatct aaaaattata aactaaaaaa ttaataatca 60  
 aatagtatgg ataaaaaaag tgcataaatc aagtgcaaac ccttcaaac aaagtaagat 120  
 caaatagtaa ttttagctga aaagagaaaa agaagcaaaa agaaaaaaag gataagcaac 180  
 taaagttgga agctaaatgt aagaacaaaa ccaaaccct tgaaatttaa ggcactatta 240  
 gaaattacac tttcaacatc ggttatttag agcattctac atcggtctta aaaccgatgt 300  
 tgaaagtgc gatgttgaat gtatcatcgt taacatcgat tttcaaaaac tgatgttaac 360  
 ataaatatga taacatcggt tttctaaata accgatctta aacacaaaga actacaacaa 420  
 aaaaagtgta tgcgatgata aagttgacca tcggtttgta gtaaaactga tgtaaatggt 480  
 atatattgac atcggtttca gtagaaaacc gatgtcaatg ttgatgatgc atatacttat 540  
 ttgttgata tttttgtata taacatcgac tattcataga aa 582

<210> 13860  
 <211> 634  
 <212> DNA  
 <213> Glycine max

<400> 13860

tcatgaaata agtcatcaaa atgttgaaat attttatattt attatgatag gaaatgatct 60  
 tgttttacta ccagagaaat atcaatgtgc tttttcattt ttgttttacc agattttttt 120  
 tcattaattt attgctatat tttagttact attaattaca gttccaaaaa tttatgtcac 180

agacataaaa atatttaatg gcaataaatt ccacaaagat acatgataaa ttgtgaatat 240  
aatcaatddd tatattgatt ttttaattact tgtcataaat ttttttattt gaatatattt 300  
taatagtcta ttttttgtga aaagtattaa ttattaaata ttttaatttaa taaattatac 360  
aataatgaat actagtatac taaaaaagat attaatdttt gtgtatgatg tatacaaagt 420  
tttgaattta atttgtatta aaagcaataa aaaattcaat aaatttatta catatgtgaa 480  
ttcctaattc gtttagaatg aaaaaattat attaaaaaat aattttaaatt aattattata 540  
aaaatcaata atttatcatc cacatttatt tataaaaaata atattataaa cattatatdt 600  
aatgactata aagagttatt atatatgctg acta 634

<210> 13861  
<211> 564  
<212> DNA  
<213> Glycine max

<400> 13861

tgctatcaca gggcgggatcg cccggtggca agttttgcta tccgagttcg atatagtcta 60  
cgtcacccaa aaggcgataa aaggaagcgc cttggcagat tatttggtc agcagcctct 120  
caacaactat caacccatgt atcccgaatt cctggatgag gacatcatgg ccttggttga 180  
ggaaaagcta gacgaggacc gagataagtg gattgtgtgg tttgatggag cgtcaaacgt 240  
tctatgccat ggcgttggag cagtattggt ctctccagac aatcaatgta tacctttcac 300  
aaccaggctg gggtttgact acaccaccaa tgtggctgag tatgaagcat gtgccctggc 360  
cgttcaggcg gcaattgact ccaatgtcaa gctactcaag gtgtacgggg acttagcact 420  
ggtgatccac caactgagag gggaatggga aactagagac cccaaggtga taccctacca 480  
agcctatata aaggagttgg ctgggttcctt tgatgagatc tccttccatc atggttcccc 540  
gagaggaaaa tcagatggcg gatg 564

<210> 13862  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 13862

cagcttatat tcattaatdt ctagagtttt ttgtggatgc aataactctt ttatdttttc 60

atgtgctctt gaaagcgaga tttatttttg gctgtaaacc taacaggcta caataagcca 120  
ccagtagtca gaatatgatg aaagccctgt attttcagtt tactgtagga gctctgccat 180  
tatactctcg aacctttgca ggatactggg cttatggatc ttcaacagcc aacctatttg 240  
atgagtgatg tgaatgggcc agtttgggct aaagccattg cccattattg cagacttttt 300  
tccatcagtc attgcattgc attgagtaac ttttaaactt caattttgtg ctactaaata 360  
ttctatctac aatgggggcc tggcctaata atctatcttt tgctttt 407

<210> 13863  
<211> 493  
<212> DNA  
<213> Glycine max

<400> 13863

agcttaacta cacatacctc tctaatagct aagttcacct ccttgagatg agaagctaga 60  
gcttagctac acaccccta taatagctaa gctcacccat atgccaaaaa aacatgaaaa 120  
tacaaaaaaa agtcctact acaaagacta ctcaaagtgc cccgaaatac aaggctaaaa 180  
ccctatacta ctagaatggc caaaatacaa ggcccaaacg aaggaaaaac ctatttctaat 240  
atttaciaag ataagcgggc tcatacttaa cccatgggct cgaaatctac cctaaggctc 300  
atgagaaccc tagggccttc ccttggatct ctagcccaat ctacttggag tcttctatcc 360  
aatgcccttg cggggtagga ttgcatcatt ccctccacct tggaaaggat ttgacctcaa 420  
atcccaaggt tcttcatact ctgggctcct tccctcgaca cctgtaaaaa gaacaaaaac 480  
atatgtatta gtg 493

<210> 13864  
<211> 545  
<212> DNA  
<213> Glycine max

<400> 13864

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gcacagtggc caaagatgca tgggagatcc tgaaaatcac tcatgaagga acctccaaag 120  
tgaagatgct cagattgcaa ctgttggcca caaaattcga aaatctgaag atgaaggagg 180  
aagaatgcat tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgcactgcct 240



tgggagagaa gatgacagat gaaaagctgg tgagaaagat cctcagatcc ttgcctaaga 300  
 gatttgacat gaaagtcact gcaatagagg aggcccaaga catttgcaac atgagagtag 360  
 atgaactcat tggttccctt caaacctttg agctaggact ctcgatagg gctgaaaaga 420  
 agagtaaaaa tctggctttc atgtccaatg atgaaggaga agaaggtgaa tatgacctgg 480  
 atactgatga aggtctgact aatgcagttg tgctctttgg aaaacagttc aacaaagtaa 540  
 tgaac 545

<210> 13865  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<400> 13865

tcggattgtc aattgcacca tgttccaaga agagtagagg gtgccacctt tgttgagtgg 60  
 ttttattagc attttgtag ttgaaataaa ggcccaaact tgtgttaaag tggatgtcaa 120  
 ttctcttttg attttcacca cctatgggct tgttttaatt taaagaaatt aaggtttaatt 180  
 aagatggaaa ctctaggctt gtggctgcct ctttgatgca agctccattg gagcttgtaa 240  
 gcctaggatc ttcttcatca atggattcct ttgcttcttg gaagatgaat ggcagcggaa 300  
 tgaagaaagg aagagagaga ggacacgcca cttcaaagag aagatgagtc tagaagaagc 360  
 tcaccaccat atgaggccat ggataagagc ttggaggaag aaggagatga atgaagggag 420  
 aggaagagaa gagcacgaaa ttttgtgctc tatatgagct ttgaaaatct gaatttaata 480  
 ttcacatgat caaagttgaa aaaaatgcac acacatg 517

<210> 13866  
 <211> 667  
 <212> DNA  
 <213> Glycine max

<400> 13866

tgtgatattt ttctttgcct taaatataat ttagtcttcc ctatttttta aaattcataa 60  
 attatttttt atttaaaaat agagacattt agttctcatt ttttaaaaaa ttataatttt 120  
 aatccctcta ttttaattag agacatttag ttttcacttt tgtaaaattt gtgatgttag 180  
 tctttcaaaa atattaattg gtaaaagatt aatctaata gacccaaatt taatgatgtg 240

acacaagatt atttgtttta tctatatcat aatcaactta atctcttaat agtcaacact 300  
 tttagtttaa ctaaataacc aaaatcgtag atgtaataaa attacgggtt aaatgtctct 360  
 attttaaaat aagataatca aaattataga ttttaaaaaa tataaacatt taagcatttt 420  
 tttttctatt gtataaacta tttttgtcc ccactagtaa atttttttgg atctgtcact 480  
 ggctgagggt actcttaaat cctaagagg tgaaaaaaat agttgcataa aaatatgaaa 540  
 gagtaatgtg accctactat aaatataaat acttgtagct gcgttagtat agataacttt 600  
 ctatgtttcg tcaatgagta atgtatcttt cttttattgt aagaatactc ttacctaacg 660  
 gaatgat 667

<210> 13867  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 13867  
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 cattaagaac tagctccttt ctctctctat tgtctttagt tgcatacacc tttgtttggt 120  
 tctctatttg gttaaccttc tcatccagct cttttacaaa ctttgacctt gattccccct 180  
 ctttatgtat aaaagaagtg tcaagtggga ggggaattag gtctaaggat gttagaggat 240  
 tgaacctata gacaacctca aaaggggatt gcttggtagt tctatgaacc ccctgtttgt 300  
 aggcaaattc tacatgagga agatactcat ctcaagacat atgggtgcct ttcagaagag 360  
 cccttaaaat ggtggataaa gacctattca ctacctttgt tt 402

<210> 13868  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<400> 13868  
 agcttatgaa gaaaagaaaa ggaagaagga agggatcatg gagcaactac tcaagacaca 60  
 agttaactca atggtgagca tcaaggagct tgatgaatca gtgagctgca acgtggcctt 120  
 tggagattaa tccaaggtag aaatgaaagg aaaaggtaac attcttattc gtttgaagaa 180  
 tggtagcat caattcatct caaatgttta ttacgttcta aatatgaaaa gtaatatctt 240

gagcctgggg caactcctag agaaagggtta tgagattcgc ttaaaagaca ataacctttc 300  
tacaagagac aatgaaaata acttgattgc taagggtgtg atgtcaagaa atggaatggt 360  
tgtgtcaac attcaaaatg atgttgcaaa atgtctcaag atgtgctaca aagatgcatc 420  
ttggctttgg catcttcaat ttgggcatct taattttgga gcat 464

<210> 13869  
<211> 500  
<212> DNA  
<213> Glycine max

<400> 13869

ctgaatgctc tattcaatgg agttgacaag aatatcttca gactgatcaa cacatgcaca 60  
gtggccaagg atgcatggga gatcctgaaa accactcatg aaggaacctc caaagtgaag 120  
atgtccagat tgcaactatt ggccacaaaa ttcgaaaatc tgaagatgaa ggaggaagaa 180  
tgtattcatg acttccacat gaacattctt gaaattgcc aatgcttgac tgccttgga 240  
gagaggatga cagatgaaaa gctgggtgaga aagatcctca gatccttgcc taagagattt 300  
gacatgaaag tcaactgcaat agaggaggcc caagacattt gcaacatgag agtagatgaa 360  
ctcattgggt cccttcaaac ctttgagcta ggactctcgg atagggtgaa aaagaagagc 420  
aagaatctgg ctttcatgct caatgatgaa ggagaagaag atgagtatga cctggatact 480  
gatgagggtc tgactaacgt 500

<210> 13870  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 13870

aatacgctg tagtcattta aggattgagg atgatttgat ttggtgataa aggccatgaa 60  
ggaagcattg ctgcctctaa gaaaacttcc atggcagtg aactcatcca caaatctcct 120  
gaattcaggt ctcagaatct tccaaaaagc cttaataaag ttgaaattaa aaccatcggg 180  
acccgggcat ttatcaccaa cacaactcca aacagcatat ttaatctctt gatcagaaaa 240  
aggggcaatg agtccctctc tttgattctg atcaatggag tggaaaaaaa ccccatcaag 300  
ggtgggtctg aaactctcat tttcagaaaa tctatgaaag aaaaaattac aagcttcatt 360

cttaatttcg gtcaggctgt tgaaccaat tcccatcaat g

401

<210> 13871  
<211> 530  
<212> DNA  
<213> Glycine max

<400> 13871

agcttgtaga tgctggaaat ccttctggaa tattagtga gagcactgat gggtggaaca 60  
cagcttctgt tgtgggaaca ttctcagggc ctaagcatcg cttggccaca gcagcaactg 120  
tgaaggacgg gaaggtgtat ctgaaccata tggttggaat tggataccca aaaaagaagc 180  
atgcaattgt tgaggcacgt ttttaacgca tactttctag aaatctaaac attggggaac 240  
tggaatgtg gggatcatatc atttacagga cgtttagttg aaatttggtg tacctttgct 300  
tatttatgtt tggttttgtt gcattaacttg gcctcagacc tcaatgcttt tcccttgaat 360  
ctcaacctaa cataagatgc tcgatcgagt cagctaaatt agccttctgt cttggaaaaa 420  
ttattaggta attccgaatt atgaaagatc tagaggttcc agattaatct ctattagata 480  
tacatttaag tttttcaatt taagaaagat agttaataac actctttaca 530

<210> 13872  
<211> 453  
<212> DNA  
<213> Glycine max

<400> 13872

agcttggatt cctcaaagt acaactaatc atggtgttta tataaagggc agcaatacta 60  
ctaacttgac tgtagtgtgc ctgtatgtag atgacttgct tgtgacagga aataatgaga 120  
ttgaaattgc caactttaaa ggagagatga tgagagaatt cgaaatgact gatttggacc 180  
ttatttctta ttttcttgga attgaattca agagaactga tgagggagtg atcatgcatc 240  
aaggaggta tgcaagagat gtactgaaga agttcagaat ggttgactgc aattctgcag 300  
acacaccac tgccactggg gtgaacttgg tgaaagatcc taatgaagaa gaagtagatg 360  
taattttgta tagacaaatg gtgggctcac tgaggatatct ttgttgact agacctgact 420  
tattgtatgt tgctggctta ttaataaata tat 453

<210> 13873

<211> 292  
<212> DNA  
<213> Glycine max

<400> 13873

ataatctccg ctgccaccca tggaactcta aatctcccac cttttggggt gggccattct 60  
tggatggccc tgattttctc aagggtccact tggaccccat ttctaccaac tacaaaccct 120  
aagaaaacta tattatctac acacaaagta cacttcttta tatttgata taggggtgtt 180  
ttcctaagga ctggaaaaac ctgcctgaga ggtcctaagt gatcatctag gctcctactg 240  
tacctaaaa tattcatata ataaacaact accaatctac ctatgaaatc ct 292

<210> 13874  
<211> 328  
<212> DNA  
<213> Glycine max

<400> 13874

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aagctattgt cgtttgactt ttcttaaagc ttccgttttt gatttcaagc gtctcgatat 120  
attatagggc tcaatcggac atccgagtta aaagttattg tcgtctgact attcttagag 180  
attccgctat caacctcgag agactcgata tattacaggg ctcaatcgaa catccccgagt 240  
taaagctatt gtcgctagat ttttctaaa gcttccgttt tcaattacaa gcgtttcgat 300  
atctacgcg aaacaatcgg acattcga 328

<210> 13875  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 13875

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cagaattggc atcactgggc tctctgaaga ctttgcttct tcctcatttt gcttagatga 120  
actcacattc attgttcact gcgcccagaa taatgggatg atgattatac caatgcttta 180  
taacgtgtat tcttctgatg tcacacaccc agaggggtct tatggagaag cattggctaa 240  
gcataagata agatctcccg aacagctcca caattgggag atggctctcg cgcaagttgc 300

tgacttgcct gggcttcatt tcaaatacag gtaccccatg ataccacact ttttatgttt 360  
 taaattttca ttggattaat taagt 385

<210> 13876  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<400> 13876

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 tgttcatttt attttatttt acatttttaa agaaaagtta gttgtgtctg aatgtcatct 120  
 ttataaaaac taaaaactag ttgtgtgtaa gtgtgtatta ttcttttttt tagtgtatat 180  
 gttaggagtt tcacattaac aagaataaat tacttaagag tgtgttttga tagagaattt 240  
 taatttaaga aggtaattta tcagagaatt tgaatttttg taatttagaa ttcattgttt 300  
 ggatgctttt tatgaagaat ttaaaatttt gaaattttta aacagaattt taagcaacta 360  
 aaaatctgga atttcaatct ccttctaata attgagaaat tgaaattatt ctttttttac 420  
 cgcttttttca gaaacacgta tacctaacac acccatcata tcttctcttt tttttatcct 480  
 cataatttaa tttctttatc caatacaaat tttgaaataa 520

<210> 13877  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<400> 13877

agcttgacca atgaaaacaa tatgatcagc gttttttgag aatattaata ggctcttttt 60  
 ggttttccaa caagtagcta cggcacagat tttttacaat ggcctgtctc atcattccaa 120  
 tgagaccttc cccactaag ttaaacaaca aaggggctag aagatcccct tgtctcacac 180  
 ctcgagtagg agcgaattct ttagtcggac taccattaac taaaatggaa atagatgctg 240  
 attgaaggca ggcagcaatc cattgtctcc atttagtaca gaatcctagt cttgacagca 300  
 tgtagtccaa gaaagaccaa gatactgtat cataggcctt ttcaaaatcc actttaaaga 360  
 ccataactgg ctgctttgtc ttcataagct tctccacca cctcattaag gatcagaatt 420  
 ccatgaagga ggctgattgc ctttcatcaa caataccga aaaacgggcc tcaacctgtt 480

tggcaaagct tggatatgac ttgta

506

<210> 13878  
<211> 455  
<212> DNA  
<213> Glycine max

<400> 13878

agcttgctga agatatggaa catgtggtct atgctatttc aaaagctggt gtacatagca 60  
aggtgcaaca actatatact gaagaaagca aggtgcaaca actatatact gaagaaagca 120  
aggtgcaaca actatatact gaaatccaag gtcgtaatgt tgaggggggct atagaaaagg 180  
taggtactct tgaaggggag catgtcatta atgaaatttc ttcttcatt cagcaaacag 240  
actgctgag aaaagtgggt cctgttggtg ttcttgctgg gtccatctta gcttccttga 300  
ggaaatattt taatgtaact acacttcaag atgatcacag aagatctctg atccatgatg 360  
atgaggaaaa acctaccacg aataaatatg gcaatcgaac gtggcacaaa aatagatcaa 420  
gtacctgacg agaaaactag tttggaacat cctat 455

<210> 13879  
<211> 280  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13879

aaaactcttt tcttagtata nacgttggtt ctacttcaat accctgtgaa ctacttcaca 60  
tagacgttat tgggtgctct agaactatga gggtgggtgg taattactat ggcttagtta 120  
tagtagatga ttactcaaga ttcacatgga ctttggttatt gaaaacaaa gatgaaactt 180  
ttgatggtat ttgcatactt gccaaaggta ttccaaatga taaaagggtct taacattggt 240  
tcacttaaag ttatcatgga ggtgaatttc aaaatgagtc 280

<210> 13880  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13880

tcactatgaa tgacaaattc cttgggataa aggtagtgtt gccatgnttt cacagcctgt 60  
 actaaggcat acaactcctt atcataagtt gaatagttaa gggatgacc acttaacttt 120  
 tcactaaaat aagcaattgg atggccttct tgcatacaaca cagccctcat cccaacattt 180  
 tgaagcatca cactcaattt caatagattt ttgaaagttg gcaacgcaag tatggcgga 240  
 ttagttagct atcgcttaag aacattgaag cttcttcttg tttctctcct catttgatac 300  
 caacatattt cttgagcact tctatgagag gtgcttgcca tgtgctaaaa tntacacaa 360  
 atactctata aaaacttgca tagccatgaa aacttctcac c 401

<210> 13881  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13881

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 gttattgtcg tttgaatntg tttagagctt atgttttcaa ttacgagagt tntgatatcc 120  
 cacgggacac aatcggaat ccgagttaa agttattgtc ggttgatttt tctcagagct 180  
 tccgtntca attacgagcg tctcgatata caacgggaca caatcggaca tccgagagaa 240  
 tnattatttt cctttaaatt tgctcagagc ttcatgtttc aattaggagc gtctcgatgt 300  
 attatgggtc taatcggaca tccgagtaa atattattgt cgttgacttt tata 354

<210> 13882  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13882

cctctcttcc cttanacttc ttttatttat tgctatttat cttttgctnt aaagaagtnn 60  
 tatttgaatn gtcttngag taattcatgt taagggtgca ttgttaatcc gaaaagagag 120  
 agtgaaagtt taattgtgga atagtcttta tatcttaatt caacccccct ttttcttaag 180  
 gtaactgagg ctatttgtcc aacatcctat tcttgataac tcacttctct cttaaaagac 240  
 agactttccg gaatgaggtc acatgaacgt cttgaaacac agtcaatcaa atgctctgtt 300



tttntattta ttttattgtc ttaacccctt cttttatttt ggaacttatt tgttttggac 360

<210> 13883  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13883

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gacttgatgg ngcctatgca agttgaaagc cttggaggaa agaggtatgc ctatngttgt 120  
gtggatgatn tctccagatt tacctgggtc aactttatca gagagaaatc agacaccttt 180  
gaagtattca aagagttgag tctaagactt canagagaaa aagactgtgt catcaagaga 240  
attaggagtg accatggcag agagtttgaa aacaacaagt ttactgaatt ctgcacatct 300  
gaaggcatca ctcatgagtt ctctgcagcc acacaccaca acaaaatggc atagttgata 360  
ggaataacag gactttgcaa gaagctgcta tggatcatgt tcatgccaaa gaacttcctt 420  
ataatctctg ggctgaagcc atgaacacag catgctatat ccacaacaga gt 472

<210> 13884  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13884

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gacgaagaca ctgacaaaaa cttatattct tcttcttgga caaagtatgg caggctggng 120  
gcaagtaata tttcttccca tcaaaccctg gatgcaactg tgatcatata cccatatcag 180  
ctagatcttg acagatattc aagccatcct tcngtcttgc cttgatgtta aagagcgttc 240  
caatcacact gtcacaaaça tttttctcca catgcataac atcaatacaa tgtctaacct 300  
caagatcaca ccgtaaggaa gatcaaagaa aatgaacctc ttcttcata tgcaactctg 360  
actttatcct tcttttgggt cttcccaa atcaatattca ggtgttgaac ccgttgatat 420  
acctgctcac tagtcaacag tatcggcgca atatcatgct c 461

<210> 13885

<211> 355  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13885

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 gcaagaatct tcacaaacaa gctactcgaa gaattgtgac ttttggaat gtatttttcg 120  
 aaatcagtca ctggtaatcg attaccatta aggtgtaatc gattacacat taacagatgt 180  
 gacttctcac tttaaatttt gaaaatcata acatttagaa gctctggtaa tcgatcacia 240  
 gttttgtgta atcgatacac aagttcaa at gatttaaaat attaacacia gtgtaatctt 300  
 gaaatcgaaa tctactgttt aaacacnggc atcgatacta cctctggtat cgata 355

<210> 13886  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13886

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 acaataacat catttcttgc actgaattgt tgggagttgg aagccatctt ctcaatcaaa 120  
 ttcctagctt cagcaggagt catatcacca agggctccac cactggcagc atcaatcata 180  
 ctctctcca tgttgctaag tccctcatag aaatattgaa gaaggagttg cttataaatc 240  
 tgggtggtgag aacagctngc acacaatttc atgaaccatt cccagtactc atacaagctc 300  
 tctccataag ttgcctgatg cctgaaatgt cttttctgat ggcaatggta ctagatgcag 360  
 ggaagaattt ctccgagaac accttcttaa ggtcatgcc a gctganaatg g 411

<210> 13887  
 <211> 281  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 13887

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 tcaatgatgg gagaactaaa gtactntctg ggattacaaa tcaagcaaac tcaagaaggt 120

atattcatca atgaatccaa atactgcaag gaattgatca aaagaattgg gatggatagt 180  
gcanaacaca tgtctacacc gatgagcact aattgttact tagataaaga tgaatctggt 240  
cagtctatag acatataaca atatcgaggt atgatcggat c 281

<210> 13888  
<211> 251  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13888

atatggaaga agatgttgat attggttaat cttccatact agtctgatct agatgttaga 60  
cattgtatng atgttatgca tatcgagaaa aatgttngtg atagtgttat tggcacgctt 120  
ctaaacattc aaggcaagac anaggacaat ntcaatactc tccaagatct agttgagata 180  
ggtatacaag atcagttaca tccaaggtct gatggtaaca aaatatactt gccctcaact 240  
tgtcatactt t 251

<210> 13889  
<211> 238  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 13889

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nggaaccctg gaatgctatg ccttatgtta tgttgtctaa catgcattat gaatctcgga 120  
natgggatga tgttgtgana atacgaangg tggtgaaatc aataggaata acanaggagc 180  
ctgtgatgta gtggatcaag atgaactaca gagtgcatac attcatttct gaagatag 238

<210> 13890  
<211> 109  
<212> DNA  
<213> Glycine max  
  
<400> 13890

aatgcctcta acagcacctt tgtcaatgaa tttcttcatt cctcttaagt gcaaagtgtcc 60  
aaatctttga tgccatattc tgacttcata ttctttggag gatagacat 109

<210> 13891  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13891

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 tgaaagacaa gagcaagtct ttgtttcttct taaagaaaag ctcaccaagg cacctgggtgt 120  
 agctcttctc gactnttcta aaacatttga gctagaatgt gatgcctcta aagtgtgagt 180  
 tggagcagta ttgttacaag ggtgggcacc tctattgctt attntagtga aaaaattcat 240  
 ggtgccaccc ttaactaccc cacctatgat anagcactnt acgccttaat aagagccctn 300  
 canactnngg gaacatactc ttgttncaag gaanttgtca ttcatagtga tcatgaatca 360  
 cttaagtaca ttataaggta aagcaagt 388

<210> 13892  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13892

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 atgccttctt tgacatcatg attcacttca ttgtgcatct catcagagaa atcaaattgg 180  
 gtggctctat ttatctgtgg tggatgtacc cggtttatcg atacatgaag atctt 235

<210> 13893  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13893

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 cttatgttat gttgtctaac atgcattatg aatctcggan atgggatgat gttgtganaa 120

tacgaagggtt ggtgaaatca ataggaataa canatgagcc tggatgtagt tggatcaaga 180  
tgaactacag agtgcataca ttcatttctg aagatag 217

<210> 13894  
<211> 315  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13894

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tgcacaaggc aagatatagt gtcaaataa gaaatgaagc tgcaggattc acgatgtcgg 120  
atataatgtc cagcacatcc tgctgaaaa tactggaatt gctaaaagca ttgaagctgc 180  
aggatccacg atgtcngata caatgtccag gacatcctgc cccgaaatac tnggagtgtc 240  
aaaagcattg aagttgcagg atccacgatg tcggatacga tgtccaggac atcttgccca 300  
naatacctga catat 315

<210> 13895  
<211> 242  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13895

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ttcanataga acaatctgaa tataaatata acgcaataat aaataaaaga gttcaaggga 120  
gaagaaagtg cacactcgga tntatactgt gtcgtgcaca cnccttggtcc tacgtccagt 180  
ccccaagcaa cccgcttgag agtccactat cttgtaaatc tctttacaag ttctacacac 240  
ac 242

<210> 13896  
<211> 199  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13896

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catgaccatn tgcagaagat gcatgccagt aaattgagct tgatagccac ccaactggtng 120  
 cacaaatatc aatcatggcc tgaaatacgc gtatactctg atctaatact gatttcaagt 180  
 ctgtgacata tgcactaat 199

<210> 13897  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13897

gctatgctgc nacatctaca cagacctcct aacctagctg anaattatcc acaacagaat 60  
 aattataacc tctccagaaa taggtacaat cccgaatgga ggaatcatcc caaccttaga 120  
 tgggtcgaatc cttcacaaca acagcagcaa caacaacaac cttattttca aaatgatgct 180  
 ggcccaagca gaccatacgt tccttcacca atccaacagc aacaacaaca acagccccag 240  
 aaacaac 247

<210> 13898  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13898

caattccttg aagatacaca aacagctaata ggctcatggt atggaagttg gngagttngc 60  
 tacatttatg gcacttggtt ngcacttcgt ggtcttgag cggcgggtaa aacatacact 120  
 aattgtgctg ccattcgac aggcgttaaa tatctacttt caacacagaa agaggatggt 180  
 ggggtggggag aaaagtatct ctcatgccca anacaggttt gtaattgaat ggccatggtc 240  
 aatacttaat gttcttcact ttcactanga anttataata atagtagtaa taatgtctta 300  
 ctaaatgaaa aca 313

<210> 13899  
 <211> 206  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<400> 13899  
 atggtgtgga taccctgtgc acaatcccat actntntaag caaggcatgc attganttng 60  
 tgcanaaatg ggttccttga tcactaacga tngctntagg tactccaaac ctgcaaaaca 120  
 gattagatct aacacaatct acaacaacct tagcatcatt agttctagta ggcttagctt 180  
 ctaccattt tgaaacataa tcaact 206

<210> 13900  
 <211> 176  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13900

atacagacct ttgctcttcc atgcagcaac ctggagtaat tgagcagcct ggagcttatg 60  
 ctgcannaca ttacaataga cctcctcaac ctgagcagca naatcaacca caacagaaca 120  
 attatgacct ctccagcaca gatacaaccc tggatggagg aatcactcta atctca 176

<210> 13901  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13901

ttcaatcaat agacctccaa tctttaatgg agagggttac cactaccgga aaaccggaat 60  
 gcagatgttt attgaggcaa tagacttaaa tatttgggaa gccatagaaa tagggcctta 120  
 tatacccacc acagtagaaa gaatacaata gatggaagca catcaagtga aagcataaca 180  
 atagaaaaac ctagagataa atggtctaaa gaggatagaa gacgagtaca atacaattta 240  
 aaagccaaaa acataataac atctaccctg ngaatggatg aatatttcag tgtttcaaaa 300  
 tgtaagagtg ctaaggaaat gtgggacact ctacaattaa nacatgaagg aactacagat 360  
 gttaaaagat ctangataaa cacattaact catgaatatg aacta 405

<210> 13902  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        13902

ttatttccag aaggaaattc aatcaataga cctccaatct ttaatggaga gggttaccac    60  
taccggaaaa cccgaatgca aatttttatt gaggcaatag acttaaatat ttgggaagcc    120  
atagaaatag ggccttatat acccaccaca gtagaaagaa ttacaataga tggaagcaca    180  
tcaagtgaaa gcataacaat agaaaaacct agagataaat ggtctaaaga ggatagaaga    240  
cgagtacaat acaatntaaa agccaaaaac ataataacat ctaccctggg aatggatgaa    300  
tatttcagtg tttcaaattg taagagtgtt aaggaaatgt gggacactct acaantataa    360  
catgaaggaa ctacagatgt taaaagatct atgataacac attaactatg atatgacta    419

<210>        13903  
<211>        399  
<212>        DNA  
<213>        Glycine max

<400>        13903  
ttaagtcacc tgcggcatgc aagcttggtt tcccagctga tgtaccatt atcatggcct    60  
ccccagaagg caccagcatg cttggccagg ccaggagcag tagcaagctt aaggtacgat    120  
gaatttccag ttgcaaagta catccatgcg cctcccaaaa cataactcatc ccagtaactg    180  
gtagaattgt aaaatataga agcttccgaa ctccctgcac tgtacctgcc tctctgctcc    240  
ctagaaaact tgaacagcgt ggtagcacca tgaactagtt tcttcgaata ggccttggtg    300  
tccttgaaaa caatggaagc agatgccaaag gcagcagcca tctcagctgc aagatcagaa    360  
caactatggc attcagtcac agggcggtca tagtccatg                                399

<210>        13904  
<211>        378  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        13904

agcttcagtt ntcaattatt atcgtcttta tatattacgg gactcaatca gacatccgag    60  
tcaaaagtta ttgtcatttg acatttcata gagcttccat tttcaattcc gagcgtctcg    120  
atatatataa gggctcaatc ggacattcga gttaaaagtt attgtcgttt gatttttcta    180



agagcttccg ttttcaattc cgagcgtctc gatatcctat gggacacaat cggacatccg 240  
 attcaaaaagt tattgtcgtt tgaatttgct cagagcttca cgtttcaatt acgagcgtct 300  
 ggatatatta cgggactcaa tcagacatcc gaataaatag tattgcattt gactttcata 360  
 gagcttccgt ttcaattt 378

<210> 13905  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13905

acctgaggca tgcaagctng cattcctctc ttcccttaaa cttcntttat ttatngctat 60  
 nnatctntgg ctntaaagaa gtttattatg aattgtcttt tgagtaattc atgttaaggg 120  
 tgcattgtta atccgaaaag agagagtga agtttaattg gggaatagtc tttatatctt 180  
 aattcaaccc ccctttttct taaggtaact gaggctatnt gtccaacatc ctattcttga 240  
 taactcactt ctctctaaaa agacagactt tccggaatga ggtcacatga acgtcttgaa 300  
 aacacagtca atcaaatgct cttntttttt aaatttattt atttttttaa cccctttttt 360  
 ttatttgga cttatttggt ttggacttta ctngttggt ta 402

<210> 13906  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13906

actcacaaca ataaggtata aatcatacta aaacttttgc tctttgtgct cgtctaaagg 60  
 caattcacat ttttctatcc tttgttgctc atcatggcat gatgttgat caaatggaca 120  
 taaaaagcat attccttaat ggacttatca aggaagaagt caatgtggaa aaccccccta 180  
 ggtttgagag ttctatctac cttcatcatg ttttcaaact taacaaggct ntgtatgggt 240  
 taaaaccagt tctcagagct tggatgaaa agttaagttc a 281

<210> 13907  
 <211> 374  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13907

agctngaata gatgaggatt atcctaatta tatgaatgtg ctatcacgaa aaacttcttc 60  
tggtgatgcc agttaaggtc atgagggata atctcagcta ccttgaagtt agcaatggct 120  
agtaactctt gtttagtggg agcaaagttc atatgtgcat cattntggac tttactggca 180  
tagtaaatg agtgaagcat cttatttggc tctgtcctag cactgcacca acaacgtagt 240  
cactagcacc acacattatt tcaaactctt ggtcccaatt tggggccaca atcactgngg 300  
ctgacaccag cctccctttc aggggtgtgaa aggctagcat acattcttca tcaaacttaa 360  
acacaacatc tttg 374

<210> 13908

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13908

gtcacctgac gcatgcaagc ttctaaactn tgtcaataat aaagttactg tttagaagtg 60  
gcctcagaaa tcttaaagct ctgataccac ttgttgga agtggcctca gaaatcttaa 120  
gaaggagggg gttgaattaa gaatttaca actattcctg aattaaatt tctatataga 180  
ttntgacca agtcctaaga ttccttttaa aatgaatttc taaataataa ttcaaattaa 240  
acttactgaa tagaaataat aagcaacaat aaataaaaga gtttgaggga agagagaatg 300  
caaacacagt tttatactgg ttgggcaaag tccattgctt acgtccagtc cccaagaaac 360  
ccgcttgga gtccaatatc tcacaaatcc ttacanattc tgaaacacac aaggacaacc 420  
cttcctttgt gttcagatgc tttaca 446

<210> 13909

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13909

agcttcaaca tcagaccact tccagggttc tggaactatc ttacatggac ttgatggggc 60

ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120  
ccagatttac ctngtcaac tntatcagag agaaatcaga cacctttgaa gtattcaaag 180  
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatt aggagtgacc 240  
atggcagaga gtttgaaaac aacaagttta ctgaattctg cacatctgaa ggcactc 300  
atgagttctc tgcagccatc acaccacaac aaaatg 336

<210> 13910  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 13910

cactcggaag tctgattgag tcctgtaata tatcgtgacg ctggaatttt aaaaccgaag 60  
ctcgtagcta attcgaacga caataacatt tcactcgga gtcctattga gtcccgtaat 120  
atatcgagac gctcgaaatt taaaaccgaa gctcgtagca aattcgaacg acaataacat 180  
ttcactcgga agtcctattg agtcccgtaa tatatcgtga cgctcgaata ttaaaaccga 240  
agctcgtagc aaatttgaac gacaataaca tttcactcgg aagtcctatt gagtcccgt 300  
atatatcgtg acgctctgaa attaaaccaa agctcgtagc aattctaacg acaataacat 360

<210> 13911  
<211> 234  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13911

cttatgagcc ttanggtata ttttgggccc atgggctaag taccaacca cttatctttg 60  
taaatattag attaagggtt catattnttg ggccttgat ttagggctcc ataattgtagg 120  
tagggtagcc taaaaatata ggatttttca gcccttgat ttagggcac ctagactagt 180  
ttttgtatta agggtaggtt tgtaatttca catgcactaa gtggatattt gatg 234

<210> 13912  
<211> 315  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13912

caataaaata aanaagataa gggaagagag aattgcaaac tcgatttata ctggtttggc 60  
cacttcccgt gcctacgtcc aatcctcaag caacccactt gagatttttc actatatctg 120  
taaataccttt acagactttg aacaaacctt gngatccctc acccttgtgt tcaagattct 180  
ccaagagaca acccgtttct tgattacaat tctcacaatc caagagacaa ctagtctctt 240  
gattacaact gactttntga gatgaacaaa anaatttttc tcttttagag tggatgaata 300  
caaattaaga atcta 315

<210> 13913  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13913

ctctcnngca tagctaagat ccaatgggtca tcaattatgg cttctttcaa attttaggtt 60  
caatcgaaga aacaataacc atattattgc acatatcttt gagagagtgt ctagtgtgta 120  
ccccctttaga tatatcacccg ataatctcgt caacaggatg gtatctagaa gtttccactc 180  
tcttggaaga cagcatttgt tcttggtcat gaatgtgaaa atcttcatca ttgtcctctc 240  
ctttgccttt ggatttcacc atgaatatgc atttcttcta agattctaan atatcatcta 300  
gtatat 306

<210> 13914  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13914

taagtcacct gcggcatgca agcttctaac tgaggcagcc aacanaatta atgcaatata 60  
aagttctttc ctgaagagac gaattttctt cgtcttccca gttntttttg acaattctag 120  
tttgcttagt tcttcaatgc ctgaatctga ggatgatcta tgaagactat tagatcgcat 180  
tagaggctca gcttctttct canaggcaac caaatcagtc tcagacgatc ttcccaactt 240  
ttttgtaacc acccactcgt aagaacttcc aaagcgaagt aatccagata tcatggcatt 300

aaatttagtt accgacatag tgttctcaaa tagaaggtaa ggaactataa acggaaatga 360  
ccgtggagct ggtagaacac t 381

<210> 13915  
<211> 237  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13915

aagcttctct gctttctttc ccaaggcttg ttcccgatc acaactntct cctccgctg 60  
agtgatttca gctccttct tttccattc caccaattta ttcttcaatc catcttcaaa 120  
ggattttctn ttctcatcca attccacctc aaactcctgc ttcttcacat caagaaatag 180  
tatttgttca tcaagaagtt tctgcatctc aacctgcata gtgtccaatc tgaattc 237

<210> 13916  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13916

attatatatn ttcattacac ttacttataa ttaagatgta atcacattta tttgtaataa 60  
ttgttcgact ttatcggtgt aattatgtct atacaatagt gttattacac acttcaagac 120  
atgtgttggt tttatttcta tgattattat ttaactaaca attttttcaa tataaataat 180  
ataatgtcaa gttacagaat aatatgtaca aattatcatc actaacttat tatttatttc 240  
taacttacta aatatataat ttgtaaattt atttaactta tttggtgaga tttatatatt 300  
aattatagtt gataaaaagt acaaattt 328

<210> 13917  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13917

agctntgacg gcgacgacag ttntatttaa actgatgttg agtattttat ttcaacatca 60

tttttgttaa aatcgtcttt aaatagacgt ttcaaagacg gttttcacia aaccgtatatt 120  
 gaaaagttgg gattatttat aaaaaagcca caacattntt taacacatca tttttgtagt 180  
 agtgttatac cggataaatt tgattcctcc ttatataaat aactactaat tgaatacaat 240  
 ttcaaattat tttagttatt acttaattnt gattgtaacg atattataat attgccacaa 300  
 atcatatatc tttatatata taanaggaga taggtgaggt ggtcatggaa gaaaaacaaa 360  
 ataataat 368

<210> 13918  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13918

ttgaccccg tcttaagtca cctgccgcat gcaagcttat tctatgggaa ttaccaagca 60  
 cacaatgatc attaaattca agtttatcta gtttatcacc acctaacaga tnttgtttct 120  
 caagttcatg taatcctctt tctaatacat gacctaattct caaatgccaa agttttggtt 180  
 tatcaatcaa tgtattacta gctaccgatg catgtccaac aatgggtggaa ccttcaagaa 240  
 taaacaagcc attactttta ttcttggtac ccttagctat gattaaagat ccatttgaaa 300  
 tattaagaac accattttaa attctagttg aatatactag atcatcaaac atgtttatgg 360  
 aaataatatt tcttttgagt tctggaatgt accttacatt tntcagtaga tactctctat 420  
 tatcaaacat cttcaatctc acag 444

<210> 13919  
 <211> 185  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13919

atctctcgag tcacctgagg catgcaagct taaatatatc gatacgctcg ttattaacat 60  
 ttgatactct ttttaaannc aaanagncat aactnttcac acggatgtcc gattcggggc 120  
 cataatatgt cgagaggctc gaaattgaac aacgcaagct cttgagaaat tatactggta 180  
 ttact 185

<210> 13920  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13920

tacttgacga tgctaattnt tgttattatc ccttatgagc atagcatctc caaatgaatn 60  
 tgggtgaagga tttcttaagt aaaaaataa tttcttataa atttttttta ttggaataaa 120  
 tctatgtgac atgaagagtt gttataaaat aagaatttta tctttcataa aatattattt 180  
 cttaataata aaataatatt tgtttaacac ataacaacat cataattaag tgaaaataaa 240  
 aaagatataa aatgaattt ttgaagtttc ttattattga aacaaaaata tatataaatt 300  
 tcttataatc atataacact ctctagatca gaacaatatt atataaacta tataaaataa 360  
 cttaacaaat ttatttaata cattctctat ta 392

<210> 13921  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13921

caatgatcaa acggttatca aatntttata tcatagtnt actaagacat gtntgagtgt 60  
 tcatganaaa gagagggttt tgaaaggcgg gaaggaaaaa cgaatttgag agcatgatag 120  
 agcgtaaaga catatggtaa atgtaaaact gacctagtat atctctattt cgaactatta 180  
 tactctcaac ctattattta ctctattttt ctttattata tnnatttata aaaataaact 240  
 atattttact cccaatcaaa tgaataaatt aaatattcat tttattttat aagaacatat 300  
 aattatntta tttaccttaa aatcattatt ctaaataata aaaatatctt ttcttattta 360  
 ttaattacga aaatctatta atttctctaaa actctattta 400

<210> 13922  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13922

gcttcggtat tcactctcga tcgtctcgan gnnatacttg tactcaatth atatctgttt 60  
 aaaaacgtta ttgtcgtttg gaattgctga gagcttctaa cattcaattc gagcatctcg 120  
 atatattacg ggactcaatc agacatccga gtaaaaagtt attgtccgtt gaatgttctg 180  
 agagcttcaa cattcaatct cgagcgtctc gatgtattat gggactctat cagacatctg 240  
 agtaaaaaag ttattgtcgt ttgaatttgc tcagagcttc aacattcaat cttcagcgtt 300  
 ttgatgtttt acgggattca atcagacatc cagtaaaaag ctatttgccg ttgaattagc 360  
 tttagcttc acaacttaat ttcgagcgtc tcaatatatg actggactca atcagacatc 420  
 tg 422

<210> 13923  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13923

gctcctaaac tntatacaag aatgaagctc tgataccact tgtttgacaa ttgggtctcag 60  
 atatcnaag aagggggggg tggaattaag atatcccaa ctactctcca caattaaaaa 120  
 tttatttcac tttcttttca agttatagat tcccttaaca atgaacttcc taaatattaa 180  
 ttcaaataaa acaatntgaa tatgaatgta aagcaataat aaacaaagga gggttacgga 240  
 agaganagtg caaactcaga tttatattgg ttgggccaca cccttggtcc tacgtgcagt 300  
 cccaagcat atccgcttga gagttctact atcttgtaaa tttcttttac aagttcttaa 360  
 cacacaagga cacatccttc tttgtgttag aattctttac acaagagacc acagtct 417

<210> 13924  
 <211> 283  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13924

agcttcatt gttcaatttc gagcgtctcg atatattatg tctccttatt ctgacctccg 60  
 agntaaaagt tatgaccatt tgaattgctc aagagcttcc attgttcaat ttcgagcgtc 120  
 tcgatatatt atgcgcctga atccgacctc cgagtcacaa gttatgacca tttgaatttc 180



tcaagagctt ccattcttca atttcgagcg tctcgatata ttatgcgccc caatcggacc 240  
tccgagttag aagttatgac catttgaatt gctcaaaagc ttc 283

<210> 13925  
<211> 306  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13925

gctataatat atctatacgc tcgaatataa acatttgnat actcnntcgg aaatcanata 60  
gtcataactt ttacacgga tgtccgattc nggcgcataa tatgtcgaga ggctcgaata 120  
tgaacaacgc aagctcttga gaaattaaaa tggattact ttttacaccg gagctctcgt 180  
gaaagtcata tggtcataac ttttcacact gatgtacgac tgaagcttat aatatatcta 240  
tacgctcgaa anttaacatc cgaaactctc tataaagtca aatgggtata acgcttcaca 300  
cggatg 306

<210> 13926  
<211> 476  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13926

tgcaagctta tctttgaaat acagggcatc attgccttat atagcaacgg tttttacaga 60  
anaataacag aataaacttc catatgggtat ttggtcgcac ccgaacatgg atgcatttga 120  
aagtagttca tgataggcta attntagata ttcaaggaca tcaagctagg tttacttctt 180  
catcatgggc tgacttggac tcttctaattg ttatgttagc catcatacaa aagttagctt 240  
cttcgctatc ctcatccgac aatgtgtcgt ctatgtcttc ccaagtactc ataagctcat 300  
tcttatcttt agaattgata aataataacg agagagatta ttaatggata gtggctcat 360  
aaaaattttt attcctgaat tattagtggg atatatatat ctttaaataa aaatatttca 420  
ttaatattat attanataaa cattttctgt aaaaaatata taccataaaa attaata 476

<210> 13927  
<211> 178

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13927

actaagtnga ctcgtagaa tgagaagttt gttcggaatg agaagtgtga gcaaagtttc 60  
caagagttga agaggcggtt gacgacagct cctatgttaa ttttgcccga ccctaagaga 120  
acatttgaag tgtattgcga tgcaagctgg caatgctatg ggtgtgtgtt gatgcata 178

<210> 13928  
<211> 281  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13928

agcttctana gatgtactta accagggtcca tcttgtttat aaccagggtgg atggctcagc 60  
atgtattgtc ttagacggtg ggacgcccag actaaagcac aacacgttct ttcgagcaag 120  
gagtagttca tttcataagc cgtgaacttt ntactcaagt agtagacagc gcgttctctc 180  
ttncgggact cgtcatgttg ccccaacata catccaatcg actcattcca aatcattata 240  
tacaagatga gaggccttcc tggtagcaac gacataagca c 281

<210> 13929  
<211> 198  
<212> DNA  
<213> Glycine max

<400> 13929

agcttataat aaatcgatac gctcgatttt aaacatctta ttctctctat aaattcaaatt 60  
ggccataact tttcacacgg atgtctgatt ctggcgcata atatgtcgag aggctcgaaa 120  
ttgaacaatg gaagctcttg aaaaattcca atagtcataa tgttttcaca ctgatgtccg 180  
attcatgctt attatata 198

<210> 13930  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13930

atgggacaat nggctaccca attgtatcaa caacaatcct agaattctga caagctacct 60  
tctcaagctg tccaaaatcc caaaaatgtc agtgccattt cattgaggtc gggaaagcaa 120  
tgtaaaggac ctcaaccogt agcaccttcc tcattctgcaa atgaacctgc caaacttcac 180  
tctattccag ataaagggtga tgacaaaaan ttacctaaca atttctgtgc aggtgaatct 240  
tcttccacag gtaattctga tttgcagaag cagcacattc ccccgcttcc attccctcca 300  
agagcagttt ccaacaaaaa aatggaagag gcagagaaag agatcttgga aacgtttaga 360  
aaagtagagg taaacatacc tctgtnggat gcaataaagc aaatctcaga tatgccaaat 420  
c 421

<210> 13931  
<211> 212  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13931

gcatgggaga tcctgaatac cgctcatgaa tgaacctcca aagagaagat gtccagattg 60  
caactattgg ccacanaatt cgaaaatctg aagatgaagg aggaagagtg tattcatgac 120  
ttccacatga acattcttga aattgccaat gcttgactg ccttgtgaga tagaatgaca 180  
gatgacaagc tgggtgagaga gatcctcaga tc 212

<210> 13932  
<211> 261  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13932

ctgtcgaga ctctgtgggt tatgtgctn tgccgaccac cacacagacc tttgcccttc 60  
tgtgcaatca attgaagcaa tngaacagct tgaagcttat gctgcataca tctacaatag 120  
acctcctcaa cctcagcagc aaaatcagcc acaacagaac aattatgacc tctccagcaa 180  
caggtacaat cccaggtgga ggaatcatcc caaacttaga tgggagagtc cttcacaaca 240  
acagcaacaa caacaacctt a 261

<210> 13933  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13933

caacggaagc tctcagagaa tgtanatggc tcataacttt aactcggagg tccgattcag 60  
 gcggataata tatcgagacg ctccaaatng aacaatggaa gctgttgagc aattcaaagc 120  
 gtcataaata gtcactcgga ggtccganc atgcacataa tatatcgaga cgctcgaaat 180  
 tgaacaacgg aagctctcat aaaatcaa atggcataactt taactcgga 229

<210> 13934  
 <211> 208  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13934

atactcagcc cattaagaca gtttcggtgc tacactacaa tgggaaaatg aaaccttggc 60  
 ttgatctgng aattccacag tataaaagct attggaagaa gtttctgaac aaagaggatc 120  
 agctcttaag tgattgcaat gtaaatntca taataagtn gntcctgtg gtgcatgttt 180  
 gggaaattgt anggctgatc tcttaa ac 208

<210> 13935  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13935

gtgactcgta agaatgagaa gtttggttgg aatgagaagt gtgagcacag tttccaagag 60  
 ttgaagaggc ggttgacgac agctccagt ttaattntgc ccgaccctaa gagaacattt 120  
 gaagtgtatt gcgatgcaag cgggcaaggc ttgtggtgtg tgttgatgca agagggaaga 180  
 gtagtggcgt atgcttcaca tcaattacgt cctcatngaa gtaactatgc gactcatgac 240  
 ttggaacta 249

<210> 13936  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13936

agctngcact agccagtgat ggaatgaatc catatgtgaa tttaagcact taacacaatt 60  
 catggccaat tctactagta atttacaatt ttctccttg gttgtgcatg cagtgaaaat 120  
 acatgatgtt gtcgatgatg atatcaggcc caagacagcc aggaaatgac attgatgttt 180  
 atctaagtcc gttgattgaa ggcttgagaa agctgtggga cgaggggggtt ttagtgtttg 240  
 atgggtttca naatgagact tttctaagtc atgcaatgct tttttgtaca attaatgact 300  
 ttccagcata tatgaatttg agcagttaca gtgttaaggg tcatcatgca tgccccatct 360  
 gtgaagaaga cacaagctac atacaactga nacatggtag aaaaacagtc tacactaggc 420  
 atcgacattt tctaaaacct catcaccctt a 451

<210> 13937  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13937

agcttcacac aatnnnattt tcttatactt gagttttgga tgaccaattn tgaggctactt 60  
 cctaactaga ttatttagat gatgcatgtt aatgtgtgca gtcctacgat gccacaacca 120  
 agaatcatct attgtactta ccaaacaat caactcatga aatgatgcat gttcaacatt 180  
 taacatatat atatatatat atatatatat atatatatat atattaccta ttatctttca 240  
 atgtggaaaa ctttacatgg cttcacttat aagacaaata atttttgttg aattcaattt 300  
 tgaagccttt gtcacaaatt tgactaatgc ttaggagggtt atgctttatt ccatccacat 360  
 atagaacatt ctttatttga gtnttggtgtt gatttcogat atttctcttc cattattttt 420  
 catggtatta tctacaaac 439

<210> 13938  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13938

agcttagccc aagaggggat tgccttttt tatgcaatcc tatgccgcaa gggcattgga 60  
tagaagaccc caagtagaat gggccaaaga tgcaagagaa ggccttaggg ttcttatgag 120  
ccttagggta gattttgggc ccatgggcta agtacgagcc cacttatctt tgtaaattatt 180  
aaattaaggt ttcattatatt ttgggccttg tattttagggc tccataatgt aggtagggta 240  
ccctagaaat ataggatttt tcagcccttg tattttaagg cacctagact agtttttgta 300  
ttaggggtag ttttgtaatt tcacatgcac taagtggata tttgatgtgt gtgggttgaa 360  
ataaatntaa ttgaattggc agaagcccaa tccaattaa ttttagagag ggaggtgagc 420  
atttgcttac tacaccccat ttgcacatca tatagtcaca ctttgt 466

<210> 13939  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13939

ttctccacta agttgcctaa tgcctgttat gtcttctcta atggcaatgg tcctagatgc 60  
acggaagaat ttttccatga acaccctatt aaggatcatcc cagctgaaaa tagacctgng 120  
agcaaggtag tatagccaat cttttaccac tcccttcaga gaatgaggaa aagccttttag 180  
aaagtcatga tcttcttgga catcaggggg cttcatgggtg gaacaaacaa tatggaaactc 240  
cttaagatgt ttatgaggat cttcacctgc aagagcatga aacttngngct gcaaattgtat 300  
tagtccagtc ttgagaacat atggaacacc ctcatcagaa tattgaatgc acaagctctc 360  
ataagtgaat tcaggtgcag ccatctncct aagaatcctc tcacgaagtg gagggatgatc 420  
catgttctca gtataaaaat tagtagtgga at 452

<210> 13940  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13940

agctggaacc aatattnttc aatctctatt ccttcattaa ctaattgatt agcaatacaa 60  
gcactacttt ttgagcaaaa caacttacag caaaaataat acactttatc taaatccttt 120  
gaatacacta gccatttttt atcatatttt tctccatatg gcattacttt ttggtagtaa 180  
aatgaagaaa aatgtctatt attttcatct ttgggatact gcatatcatt atatctaatt 240  
ggatcataaa tattnttaga aacttcattt gatgtactat tgagctcctt atttgtttct 300  
aaacaatctt cttataaatn ttcattatcc tcttgttctt gactaggatt aagactattc 360  
atattgttaa gaatttctat ctctagaaat tntcattatc agtattntgc tctaccgtat 420  
taatatta 428

<210> 13941  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 13941

ctctctgaat ccactgtatt gctaggttta tataatgtgt attcattaat ggtgcattca 60  
aatctctatt gtatctatta attattcatt taataaatca taatcccttt taaacaacta 120  
atgttttgac cagtcaagca cgtttacatc tttgtaatgc atatataaaa aagtatttgt 180  
ttgagttgct atacatattt ttgaagaatt aaattaataa aatatagaat ataaataatt 240  
ttcacaaagg taaattaaaa attttagttt ttaattatag gtaatatataa actgtaattg 300  
taataaaaaa atgcttttga aatacatatt ca 332

<210> 13942  
<211> 346  
<212> DNA  
<213> Glycine max

<400> 13942

tcaagcttga tgcaacattt ggagaggtta ttgaacaac gagatgatgc gctccatgag 60  
aggttggatc aaatggagaa tagagatcat aatgaagaag aaaggaggag aagaggggaat 120  
gatagtgttc ctagacaaaa ccgaattgat ggtattaaac tcaacattcc tccattttaa 180  
ggaaagaatg atccggaggc ctacgttgag tgggagatga aaatagagca tgttttctca 240  
tgcaacaact atgaggagga ccagaagggtg aagcttgccg ccacggagtt ttccgactat 300

gctcttgtgt ggtggaacaa gctacaaaag gagagagcaa gaaatg

346

<210> 13943  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13943

caacggaagc tctcgtaaaa attttgttgt cataaacntt cacacagatg tccgattcgg 60  
ggaaataata tatcgagacg cacgaaattg aacaacggaa gctctcgaga aatttgaatg 120  
gtcataacat ttcactcgga tgttcgattc ggggacataa tttatcgaga cgctcgaaat 180  
tgaacaaccg aagctctcga caaattagaa tggtcgtaac ttttcacgcg aatgttcgat 240  
tcggggacat aactcatcta gacgctcgaa attgaacaac ggaagctctc gagaaattcg 300  
aatggtcata agttttcaca cggatgtccg attcggggac ataatatatc aagacgctcg 360  
atattgaaca acggaagctc t 381

<210> 13944  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 13944

agctggacct tatctcacat ggatgttatt tatgtattct tgaatgggac catctaagaa 60  
gacatttaca ttgctcaacc atatatggtt ttgtgcatcc taatcacagc ccaaccatgt 120  
ttgccacttg aataaagccc tttacttaca atgcttttat atcatttctc ttggcttatg 180  
gcttcaccaa tgtcaaactc gacacttcac ttttttattt ataaaaatga tcatgttatg 240  
gctattttct tgtgtatgta gatgatttgc gacttacagg aaacaagttt ctcggtgact 300  
ttcaacaact agctgtttcc aacaactttt cacttaaaaa tc 342

<210> 13945  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13945



ttccccccaca nagtcttata aaatgactta agaacttata atccctattc gtcacaatgc 60  
 ttttgggcag tccatgaagg cacaccacct ctctaaagaa caagtctttt accacacaat 120  
 catcatccac tttatggtaa ggaatgaagt gagccatctt tgagaaccta tctaccacaa 180  
 caaaaataga gtccttgcct ctcttggacc ttggaaaacc aagtacaaaa tccatggata 240  
 tgtcagtcca aggagatgtg gggataggca aaagggtata caaaccatgg cttatgacct 300  
 tagatttagc tctatgacat acaatgcatt tgacaaaata tttattaaca ttatgtttca 360  
 ttntttgccaa aaagaaatga tcatgcaaaa tgcctaaagt cttgtaaacc ctaacccatn 420  
 caacctcctc atgggcttct ctaatcaaca attcatg 457

<210> 13946  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13946

gatgttgaga gtgtntgtct tanatcacta tctctatttg aagtcacctc tttcaaaaaa 60  
 atagaacatt taaaattgag attgatgtga tagaaaaaaa gtgttttgcc actatagtaa 120  
 acaatgaaga gtggttatgg cattacagag ttggccattt aaattttaga gatctgattc 180  
 agctaaactc aagagaaatg gtgttgggtt tgcctcagat caagcctcct agtgaagtat 240  
 gtgatggttg tttacagtgt aagcaatcaa gaaccacttt caaacaaaat gtaccaatca 300  
 nggcaaagga gaaacttgaa gtgatttact ctgatgtgtg tggccctatg cagactgaat 360  
 ctcttggttg aaacaaatac ttcatacctt ttattgatga attgaccagg aaagtatggg 420  
 tttatctaata aagaaagaag agtgatgtct ttgaagtctt tg 462

<210> 13947  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13947

ctccgcttca gctgagctnt gggaaaaggc taacctttat gatttcttct tgagacaaaa 60  
 gtccagaagc aaatggatta agaaggagga cagcaacacg aattatttcc acaaattgat 120

taatcacagc aggagaagaa ataacttgag agggttgaca attgacaact cttgggtgga 180  
 agatcctaac ctcattaagg ctgaaatcct tcagcatttt cagagaagat ttcatagaatc 240  
 ccagctgcat agacctaact tggatggagt ctctttcaat gttttaaccc atactcagag 300  
 ggatacattg gttgaacctt ttaaagaaga ggangtgcca tgtgctgtgt ggagttgtgg 360  
 gaatgacaaa agcccggggc cagatggctt caatttcaga attattaaac actt 414

<210> 13948  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13948

gctctcgnga aattcaaatg gttataactt ttcacacgga tgtccgatta tggcgaatca 60  
 catatcgaga cgctcaaaat tgaacaacgg aagctcttga gaaattcaaa tggtcataac 120  
 ttttcacacc gatgtccgat tcaggcgaat cacatatega gacgctcaaa attgaactac 180  
 ggaagctctt gcgaaattca aatgggtcata acttttctact cagatgtctg attcaggcgc 240  
 atcacatata gagggcgtcg aaaaggaaca acggaatctc tcgagaaatt caaatgggtca 300  
 taacttttca cactg 315

<210> 13949  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13949

agcttccgct gttcaatanc atttcttttt gatatatnat ggccttgagt cggacatcgg 60  
 agtgaaaagt tatgaccatt ggatatctcg agagcttctg tctttcaatt tcgagcatgt 120  
 tggatatatta tgtcccagaa tcggacattc atgtgaaaag ttatgacaat ttgaatttct 180  
 cgagagcttc tggtgttcaa ttttatgtgt ctcgatatgt tatgcgtctg aatcggatat 240  
 ccgtgtgaaa tggtatgacc atttgaatat cttgagagct tccgttcttt gattccgagc 300  
 gtcctagtat attatctccc caaatcgaac atccatgtga aaagttatga gcatttgatt 360  
 tttagagagc tgtcattttc aattcgagcg tctcgata 398

<210> 13950  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13950

tagtaaagct aagcactaac aatatgttca agtgcattatt cagattcaat gcatgaagag 60  
 tgacaggcat gcagattana atgaagatca gtcattgtatt catcaacaat atgggtcaatt 120  
 atttcaacac gaaatacaga aagatcttca gatgggtggtt tcatagcatc aagaatatta 180  
 aatgaacag ttatatcacc aaactccata gatagtgtgc atgcatatac atctatctta 240  
 gttctagcag ttttcataaa aggtctgcct acaatgatgg gaactgatcc tttagaatat 300  
 ccctcctcca tattcaaaat ataaaaatca acaaggaaaa tcagctcacc aactctaact 360  
 aggacatcct ctatgaaacc agcaggataa gcaacacttc tattagctaa atgaattatc 420  
 acatcagctg ac 432

<210> 13951  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13951

aaaactacgc ttctatccaa gctatcttgt ggtgaagctt cacttctatg gcttattcct 60  
 taatggatgg cgctcctct cactcgttt tctttgtctt ccgctgcac tccatgggtg 120  
 aaaatcacca ttaaaggacc ccattgaagc tcaaagatcc agccctcata gaagccccac 180  
 aagcaagctt tcatcaagtg gtaatcagag cacaagagct gcaaattgcc atatatggaa 240  
 ttggaaggag gattggtgcc atcccttgaa gaatttgagt caagaagcac ggagccaacc 300  
 accttatgag ctattggact aagaagcact ccacattgng tgaatcacca aagagagaaa 360  
 taccaccaca attgaggacc ttgttgcaat attgtaattg ac 402

<210> 13952  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 13952

acactgcaac tcgagctttt ggtgatccag cacttgcaat tccattgccg aagccaaata 60  
cactagctcc aggaacaaag ttaccacctg cgggtgataa agtatgtgaa ccagctacgt 120  
tcatagtcac gtacactaag ctctgaggca ttcagttttg tacctgcatt tgccataa 180  
cctttgtaga aatatcttgc tccaataagc ttctacata tagtaaaaac gtcaatttaa 240  
ttcaaatac aaagaccttt aaaacttaat ggaatttctc atgatgcaag ttaattcaaa 300  
tgccaccga aacatctatn tataactgaa gctgatacta atngaactaa tattaacacg 360  
taaagaatga ttacctacc 379

<210> 13953  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13953

agtttcttgt gatttcactt tataatatat cctccaatat tctgttctac ttttaaagat 60  
ttagtactgt acatttttga aagaatgcat tatgttttgc agatatgtgg aaattgggtt 120  
agagtcaggg cttcctgttt cagtcaatgg taagagtctt tcaccagcgt ctttacttgc 180  
tgagctcaat gagattggtg gaaggcatgg aattggccgg atcgacatgg ttgagaatcg 240  
gcttgtaggt atgaaaagcc gtggagttaa tgaaactcct gcgggaacaa tcctgtttgc 300  
tgcagcacgt gagttggagt cattgacact tgatcgtgaa acaatacaag tcatagattc 360  
attagccctt anatatgcag aggtagtgtg tgctggcaga atggttgatc cgcttcgga 420  
gtccatgga 429

<210> 13954  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 13954

acagcttctg ttatgaattt cgagtgtctc gatatactac gggtcacttt cggacatccg 60  
agtaaaaagt tattgacatt tgaatttgct catagcattc gctggcaaatt accaacgtct 120

agatatatta aaagattcat tccgacatcc gagtaaaaaa gcattatctt tttattttgc 180  
 tcagagcttc tgttttcaat ttcgagcatc tcgatatatt acaggactca atcggatatc 240  
 cgagtcaaaa agtattgtcg tttggatttg ctacgagctt tcgggttcaa ttacgagcgt 300  
 ctcaatatgc tacgggacac aatcggacat ccgaataaaa agtattgtcg tgtgaattac 360  
 tcagagcttt cggcgcaatt acgagcgtct cgaatattac 400

<210> 13955  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13955

tcacaatttc ctcaactcata attggtctgc caccacttct gtatgccatt gggttggtgt 60  
 cacttgtgat gcttaccatg gaagggtaag gacattgaat cttggcgaca tgtctcttag 120  
 tggcaccatg ccctctcact tgggaaacct taccttcctt aataaacttg accttggcgg 180  
 aaacaaattc catggtcagt tgccagagga attagtccaa ttgcataggt tgaagtttct 240  
 caacttgagc tacaatgaat ntagtggaaa tgtttcagaa tggattggag gattatctac 300  
 actcagatat ttaaaccctg gaaataatga ctntggtnng gttttt 346

<210> 13956  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 13956

atctatcgct cctaatatgg agcccttctc aatcaccctc attaagaact agcttttttc 60  
 ttcctctatt gcctttactt gaatacacct ttgttgggat ctctatttgg ctcttaactc 120  
 tctcatgaaa cttcttcaca aactctgacc tagattcccc ttctttatgt ataaaagaag 180  
 tgtccactgg gaggggaatg aagtcaaact gtgttaaggg attaaacca taaacaacct 240  
 caaaagggga ctacatgagg aagatactca tcccaagact tatgggtgcc tttcacaaga 300  
 gctcttataa aagtggatga agacctattc actaccacta tttgccaatc agattgtgga 360  
 tgacaagtgg tag 373

<210> 13957  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13957

ngtagtacta ccacaaagaa agaanacaat cagcgcttaa tgggtgttta taaacaagct 60  
 acatgaggca ggtaagattg tgagaaataa ggcaagacta tttccaagg gttattcaca 120  
 attggaaggt atatattata cagaaacctt ggccctatt gtcgtctag aggcaatata 180  
 cattttactc tcattttag ctcatacaaa aatgagacta tatcaaatgg acgtaaaaag 240  
 tgcattcctt aatggactga tacaagagga agtctatgta gaacaacccc cgggtgttga 300  
 gagtaacata tntgcacacc atgtatttaa actctgtaa acattgtatg gacttaagca 360  
 agctcctaaa gcttgatag aatgtcttag gtcatttctt ttacacaatg actt 414

<210> 13958  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13958

taagctgcta gcattttctg gttcaatcat tttagaatta gcttgatatt ttccctgatg 60  
 aaaagggtgga ctgattttgt cttaaattaa gtggcctgct gtgataactg atactccaag 120  
 tctcatcggt ctgactagt agagcaagac atctagtatg ccattcagta tgtttgaaat 180  
 gtgaatgcc aatgcataaa atctgtattg attgttactt atatccatag ggtaacaaga 240  
 gaagtgcctg gtttacagat gaagagagga aatcatttgc aaagaacttc ttatctaggg 300  
 gattttaga tacctttaga aggcagcatc ctgggtgttat tggatataca tattgngggt 360  
 accgtcatgg tggacgcaag ttaacagagg tatttctagc acactcttaa aaatnngatt 420  
 atatataatt tact 434

<210> 13959  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 13959

tcttacaaga gactaagann attttgatgt aaaattttta gtataaagat cttggggaaa 60  
cctcttttgt attagaaatt aagatactaa gagatcgctc tcaaggtatc ctaaggttgt 120  
cacaagagag ttatatcgat aaggtcctag atagattcag catgaaaaat agtaaaccag 180  
gagatacccc aatagctaaa ggagacaaat ttagtctcaa acaatgccct aataatgacc 240  
ttgaaagaac aaagatgcaa aagatccctt atgcataagt agtaagaagt ctaatgtacg 300  
ctcaagtttg cactcgtgcc gatataacat ttgtagtagg aagtttgggc agatatttga 360  
gtaatcctgg aatgcagcat tgganagaag cnaacntct gattcngtac ctanagagaa 420  
canaaggata catgctcact tatcagaagt ctaaattttg 460

<210> 13960

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13960

agcttgttta ccccatgttg tatnngctta caatagagnt gntcatagca ccactaattg 60  
ttctcctttt gaagttgttt atggttttta cccactaact cctcttgatc ttttgcctat 120  
gcctaattgtt tctgttttta agcataaaga aggtcaagca aaggcggact atgtgaagaa 180  
gcttcatgag agagtcaaag atcaaatga gaggaaaaat aaaagctatg ctaaacaagc 240  
caacaaaggg agaaagaagg ttgtctttga acccggagat tgggtttggg tgcacatgag 300  
aaaagaaagg tttccagaac aaaggaaatc aaagcttcaa ccaaggggag atggaccatt 360  
tcaagtgctt gaaagaatca atgacaatgc ttacaaaagt gagctgcccg gtgagtat 418

<210> 13961

<211> 339

<212> DNA

<213> Glycine max

<400> 13961

aaattcaaatt ttcaagtctg aagaatcaca actcttttaa aactacctgt gtaattgaat 60  
accacattta tgtaatcgat tagcagtaaa gaattttcga aaataacccc caagaatcac 120  
aattgggtcaa gaatttttga atggccatca aatgccttta aataggtgac ttgggatacg 180

aaattcctta gagtttttct gaacaacatt atcttatcct ctcaaaacca aattatctta 240  
 tcactatcaa aatattcctt ggccaaaaca cttgcaaatt caataaggaa tcatgatcga 300  
 tattcaattg taatattcctt atcttaaaga gagaaaatt 339

<210> 13962  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 13962  
 aatggctgcac aatggaatat aaactgcggc agttattgtc gttttaccta ctccaccaag 60  
 cccatggatc cccagcatgt ggatgacatc atcagatcca acatccagaa gttcttttac 120  
 ttcttgcata cgtgactcaa gtccaactgg ataatccgca acatgtaaag gagcacgatt 180  
 aatcttctta gagaccaact caacaatcct ctgaataaac ttatatctgt attcttcctt 240  
 attcaatcag agaaatcaga gaaaagtcaa acaaaactag tcatcctcca tatcttgata 300  
 tgtatgtatg ctgttcaagg taataaaactt tattcatccc tctaaatttc aacattatgt 360  
 ttaattatta atcttggtc tatattggc tacaccttta tgttttgacc tatacgcaaa 420  
 aaatgtatgt ttagctctag acagcatatt 450

<210> 13963  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13963

gtcacctgcg gcatgcagct tgagcaattc aatgtctttn attttttact cagatgtccg 60  
 aatgagtccc ataatatatc gagatgctcg aaattgaatt cgtaatctcc taaccaattc 120  
 aaacgacaat aactttttac taagaagtct gattgagtca cgtaatatat cgagacgctc 180  
 gaaattgaat acaaaaagctc tgtgcaaatt caaatgacaa taacttttta cttggatgtc 240  
 cgattgagtc ccgtaatat ttgagatgct cttaaattgaa aatggaagct cctagaaaac 300  
 tcaaacaaca ataactttct actcggatgt ctgattgagt cccgtaatat atcgagacgt 360  
 tcaaaattga atacggaagc tctagtaaaa ttcaaaccac aataaccttt gactcggatg 420



tttgatngag tcccgtata tatcg

445

<210> 13964  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13964

ngagaatgga gaattgcact aagcaattat tacgcatatc tttttactcg aagggtggagg 60  
acacatgaac gaaaacacaa ttcattggggc tccgaaaaag ggggttgagaa tggagaatta 120  
cactaagcaa tcactacgca tagctccaaa ctcgaagggtg gaggacacat gaacgataac 180  
gcaattcatg gggctccgaa aagattgata atggagaatt gcactacgca atcactacgc 240  
atagctccaa actcgaagggt ggaggacaca tgaatgaaaa cgctattcat ggggctccga 300  
anagattgag aatggagaat tgcactaagc aatcactacg catagctcca aactcgaatg 360  
tggaggacac atgaatga 378

<210> 13965  
<211> 227  
<212> DNA  
<213> Glycine max

<400> 13965

cttgggccag ccacatcaaa agtgtagat ttcaacttaa aactaattgg cactaaatga 60  
aagtgtccaa cagatatata agctgtatcc caaaaattga ggcaggatgat gtgggacttc 120  
ctaaccctccc cctccacaaa tgcttgccaa tacaagcaag cctacaagaa taggcaagaa 180  
ctaagatggg ctataggctc tgatatcatg ttagatttca acttaaa 227

<210> 13966  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13966

tgtatggtag aagggttagg acacctctat gttggtttat gccctgagaa gacctcacct 60  
tangacttga agtgggtacaa caaaccaccg agaagggtcaa gttgatccaa gaaaggatga 120

ggactgctca gagtatgtag aaaagttatc aggataagag gaggaaagac ttggaattcg 180  
 aggttgggtga tcatgtattc ttgagagtca ctctgtggac tggggttggt cgagcattga 240  
 aatcccaaaa actaacacct cgctcatcg gtcctttcca aattcttaa agagtcggtc 300  
 ctgtggcata ccaaattgca ttacccccat cacattctaa tcttcacaat gtctttcatg 360  
 tgtatcaact ccataagtat atccatgac catctcatgt ggtcgaattg gatgacgtac 420  
 aagtaaagag aacttgacat atg 443

<210> 13967  
 <211> 308  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13967

acaaaaaact gacaaaaacc tatcttctcc tttttggacc aaatatggca aggtgggggc 60  
 caagaaattt tcttcccatc aaacctgga tgcaactgtg atcgtatgcc catatcaact 120  
 agatcttgac ggggtattcaa gccatccttc gtcttgctt gaatgttaag gagcgtccca 180  
 atcacactgt cacaaacatt nttctccaca tgcataacat caatacgatg tctaacgtca 240  
 agaatcaaac cagtaagaag atcaaagaan atggacctct tcttccatat gcaactctta 300  
 cttttatc 308

<210> 13968  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13968

gatccttaag cacctgcngc tgcagctata gtcattactg ttaaacttta actcaagnng 60  
 aatgttcctt tgatatagta aataatttgt tttgtggcct tgagatgagt aatggttgga 120  
 gtctccatgt attgactgat gagtcgagta ccatataaaa tgtctggtct tgtggacgtc 180  
 aaatatcaca aactaccac caaactcttg aaatttgtag cacccatctt ttttgcttcg 240  
 tcaaactttg ataacttcat tttgcactcc accggtattc caattggctt gcatagtttt 300  
 gctatgaaat gaagattcaa tcttctttt gctttacctc aataccaaga tagtatgaca 360

ttagtccaat atcgggtcatc ttgaactcct tgaccattgc tttcttgaac ttttcanaca 420  
tacttggatt acttcccatg aagatcaagt tatccacata tatgaacatg at 472

<210> 13969  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 13969

agcttcataa atccatcact ttttatgttc tatgcacaaa aacttaaagt atgttaattt 60  
aacaattatt tgctcaaaaa ggaaaaagta ggagggaaaa attacaaatt cctatataat 120  
ttatgatgca atactacccc gcaagggcat tgggtaaaaa actccaagta gattgggcta 180  
gagatccaag ggaaggccct agggttctca tgagccttag ggtagatttc gagcccatgg 240  
gctaagtatg agcccgctta tctttgtaaa tattagaata ggtttttctt tcgtctgggc 300  
cttgtatttt ggccattcta gtagtatagg gatttagcct tgtatttcaa ggcattttga 360  
gtagtcttt 369

<210> 13970  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13970

tctntgagan aacttccttg agaagctaga gcttagttac acacaccctt ctcataacta 60  
agctcacctc cttgagaagc ttccttaaga agattcctaa agaagcttga gcttagctac 120  
acatacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180  
cacccttat aatagctaag ctcaccccca tgacaaaaaa catgaaaata ccaaaaaaag 240  
tccttactac aaagactact caaaattccc cgaaatacaa ggctaaaacc ctatactact 300  
aaaatggcca aaatacaagg cccagacgaa ggaaataact attctaatat ttacaaagat 360  
aagtgggctc atacttagcc catgggctcg aaatttacc tatggctcat gagaacccta 420  
gggccttccc ttggatctct agccaatcta cttggagtct 460

<210> 13971  
<211> 455

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13971

ctgcagctta cagcaatgca cttctcattt ttcaaacgat atgttgacaa gaaaacacaa 60  
gtatattcac tangaaaaca tttgtgtgga aggaaattgt agtgctgtga ttcaaaagat 120  
ccttcacact aagcataaag accctgggag tgtaaccatt ccttggtcaa ttggagaagt 180  
cactatggga aaggctctta ttgatctggg agccaatatt aacttaatgc cactctccat 240  
gtgcaaaagg ttgggagagt tggagatcat gccactang atgactttac aacttggtga 300  
ctgctccatt accagaccat atggagtaat taaagatgtg ctggtcagag taaaacattn 360  
tatcttccta gcagactttg cggtaatgga tatctatgaa gataatgaca ttctgtaat 420  
atggggaacg ccattcatgt taactatgag ctaca 455

<210> 13972  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13972

cgaatgttgc tagaaattgc aatttatggg caagcctata ctctaata ctgcaagcag 60  
ggatttttgc ttttttgtct agtttgcttc aactcgattt taggtgtggt gcattttccg 120  
tttgaactat acatatcgca aataaattga ccaagactca ttattgtaaa ggttttttca 180  
caataattat ggtggagaaa atgccaatc aaatagaatg tccatgattt tgactaggct 240  
aacaagtttt gacaggaat caagtctgt tatgttaatg aaatgaactt gcagaaattt 300  
gaacctctca acagatggag aataagtgt taattgcttt agtcactgtt gatgttgatc 360  
ancgtcttta gaactacnnt ctttcttctc tattaatntc aagtttgaaa tgatacatat 420

<210> 13973  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13973

acaaagcacc ctacggcctc atgtgctaaa actnttagct gggagcacca tgacactacc 60  
 aagcctttct ctgacttctt ttcgaagttt ttagggagtt tagtctcttc agaagctcta 120  
 accacccaca agaagtaact ttcactatct cttaaaccat aagctagttc ttctatttgc 180  
 tcctcactaa gtattgccat actcccaaaa gaaacataaa taacagactc ttttatctta 240  
 tcatctaacc attttatgca ttcttcactt gtgaatngtg caacaccata gtcttcatca 300  
 tcttggtttt gcttgtctaa naacatggat ggaatggatg gtcctatnng tcctaaattt 360  
 ggccagatct tcatcgtcca atcagccacc tacaagcaaa ataagtaatg tcacattcta 420

<210> 13974  
 <211> 214  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13974

gctgcaccct caattgatta ttactatctg tgcacacct ctacttatat caattgcata 60  
 attctacgac ggtctttcaa acagaggatt atcttatntt aataaatata tccaatcaat 120  
 cccaatcctt ttaccgatta acatcttgta agatnttcac aaatccctac cttttaattt 180  
 tcgactttct caaaatatat cagctgatga atta 214

<210> 13975  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13975

gtacgctaaa gatattatga atgcttcaac tgagcgtatg ngtttgaaga aaatgtgcac 60  
 aatgtncatt ggctttcttt tataggatcg tggcctcata atccctaaac aatgtgcaca 120  
 tgagtaattt gctctcaagc ccattataca tttaacccta aacaatgagt atataaactt 180  
 aaaaaaatag aatctaattt ccatatatgg ctatggtann naaaatattt atcaacgaag 240  
 tgaanactat aataaatata actgataaga taattattat aaaaataaat gaaataatta 300  
 tacataccaa tttgtgataa aaaataatgt gaattctttt acanaataat atattgctac 360  
 ttctcttaaa gtatggcttc attaactgat agaaatctac attaacagtt atttacacga 420

caaataaatt agactattct gcacattgcg cttatgggtca aacactacta

470

<210> 13976  
<211> 251  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13976

tatatcgaga cgcacganat tgaacaacgg aagctctcga gaaattcgaa tggtcataac 60  
atttcactcn gatgttcgat ccgngacat aatntatcga gacgctcgan natgacaacc 120  
gaagctctcg acannatatg aatggtcgta actnttcacg cgaatgttcg attngngaca 180  
taatcatcta gacgctcgat atgacaacgg aagcttcaga aatttaatgg tcatacgttt 240  
cacacggatg t 251

<210> 13977  
<211> 196  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13977

tcataatgat cattnggatg tagtaattcg aattttgaaa tacattaaaa ggacctcagg 60  
acaaggacta ctctatgaag acaaangaga cacttcaaat agtggatttt gcgatgcaga 120  
ttggacataa tcaccattg ataggcggtc cacttcagga tattgtgtgt ctggaggagg 180  
aaatcttgtc tcatgg 196

<210> 13978  
<211> 269  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13978

tcttcttcat caatggagtc cntngcttct tgaatatcaa tggtagtgga atggagaagg 60  
aagaaagatt attggagaca cgaattcaag gagaagatga gtcaagaaca agctcaccac 120  
cataggaagc catggataat agcttgaagg taggagaaga tgagtggagg gaggaggaga 180  
gaaggagcac gannatttat gcctcanatg aggtctgaac tntgaagtgt aattctcana 240

tgatcaaagt tgaanaaaat tgcacacat

269

<210> 13979  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13979

ctataaatct atctaagaac cctgttcggc actcaagaac ccaacacata gaaatangac 60  
atcatttctt gagagaatat gttcaaaagg gagatttgtt tctagaattc ggtgatacaa 120  
agaatcaagt agctgatatc tttaacaaac ctctccataa agaaacgttc tttgctatta 180  
gaagagaant anngtcttta gatatcaatg atctagacaa gtaggtaact cattgagctn 240  
tgtctcttta tgttcatata ntggccttgag tgtagtgtag cgttataata gtcataata 300  
tgttggtggc tttataatg gnccttgata ccttggtgaa tataat 346

<210> 13980  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13980

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ctcacatcct tgaaaataat tacggataaa ataacataac aaatataatc aaacatcaaa 120  
cataattact aataatatat agatatatat cagggtgtta caactctccc accctttttg 180  
aaatttcgtc ctcaaaattt acctgactca aacaaggatg gatgagcttc tcgtatctga 240  
ctctetaatt cccacgtggc atcttctcct gatgcacctc cccagatcac cttgaccaac 300  
agaatctttn tccctcttaa gtgttttggt cacctatcct caatcctcag aggcaatggt 360  
tcatatgt 368

<210> 13981  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 13981

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gataatttct ttatttggtt ntaatgaaaa ccccatggat caatgcatat accacaaggt 120  
cagtaggagt aaaatatggt ttcttggttt atatgtagat gatattttac ttgtagtcaa 180  
tgatcgngt ttgctacatg aggtgaaaca atttctctct aagaantttg acatgaagga 240  
tatangtgat gcattctatg tcacgcacat taagattcat agagatagat ctogaggtat 300  
tttgggtcta tcacaagaaa cctatatata caaaattcta gagagatttc agatg 355

<210> 13982

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13982

caccatccat tttaagatgt atgcataatt ntcaaaataa cagaggcagc accttagcag 60  
ctccagtgt gctgggaatt atattgaagg aagcagctct tccaccctc cagtccttgt 120  
ttgatggacc atcaacagtc ttctgagtag ctgattcatc aaaaaagta tataatgaat 180  
accatatctt catctaaaat tgaaaaggat aatagattaa ttcaagaagt tatatagcca 240  
aatgacaaac ctgtgatggc atgaacagtg gtcataagac cctccacaat tccaaatcgg 300  
tcgttgataa cctgtacaaa attaaaatnt aataatttca ttaagaaaaa tgcaaattta 360  
taatacagat ggaagcagca atatataaat atatcaca 399

<210> 13983

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13983

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acgagacatc ttgccaaaca aagttaggtt agcgataact cgcattgtgt ntttcttcca 120  
tgctatatgt agcaaagtca ttgatcctat caagtttgat gagttggaaa atgaggccgc 180  
aattatactg tgccagttgg agatgtatct tccccctgct ttatttgaca tcatgaatca 240



cttgattgtg tatctggtca gagaaatcaa atgttgtggt cctatttatc tacggtggat 300  
gtaccccggt gagcgataca tgaagatctt aaaagg 336

<210> 13984  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13984

tctagagtag tataatgtag tcggctatga tactttttaaa tatcttgcct ccaataactaa 60  
atgccgattc ataagctaca gcggagatcg gaatatctaa cacatccctt gcaatagcta 120  
gtagtgttgg atacattagc tcgttcaatt tccaccacat taagatatca gaatctgaat 180  
ttcttggatga aacttcatcc tctaagtaat gatccaactt cgttttcata gttgaggttc 240  
ttgccctttc tttctttcaa tgtatctatc ataatcacac aatttactct ttccatcact 300  
aaccacatct agtgattcaa aagaactagt agaatctgga tgctttttgg cttgatattc 360  
cgaaatanaa tcataacaca 380

<210> 13985  
<211> 248  
<212> DNA  
<213> Glycine max

<400> 13985

tccctatgtt atcacacata tcaagggaaa acgtaatatt gtagtgtatg ctctttctcg 60  
gcgtcatgcc ttactttcta tgcttgaaac acaattgatt ggtcctgaat gtttgaaaag 120  
catgtatgaa aatgatgaaa cttttggaga aatctttaaa aactgtgaaa attcttcaga 180  
aaatggtttc cttatacatg aaggctttct tttcaaagaa aacaaattgt gtgtgcctca 240  
atgtttcta 248

<210> 13986  
<211> 261  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13986

cgccgcgaag gtatagtacg atgataccttg tgtgcggcgc agcttttctg cgggtgctgc 60  
 gcgtggngtg ttttcttcac aggattgttt gcgaagaaag tgtacgtgga ggagaattac 120  
 agagttggaa ggccgttcgg ggctctgatg ggtggcgga ggaggctgct ggccggcgac 180  
 gtgattcaca tattggtggt gtgcgggtgg gttactgtga ccatggcgcc gttggtctat 240  
 gtgcttcata tgatgaaact g 261

<210> 13987  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13987

ttgtatacac tatgacacgt atattttatt aactcatccc ttataattat atttgaagga 60  
 caaaacttat agtatccagt aagtgtttat agtgttctcc aattaaatgt tagagtttca 120  
 tctcagtaat ttctttaata aatgtttgca taaaattac gaagatgaaa ctctaattat 180  
 gattagagaa caaaataaaa catacctata gaaattcttt cacacacaaa cttaatgcca 240  
 ttcaatagaa cacaaaaagt ctagatatgg tggcttatct aacatcctca acatgtctct 300  
 tagcttggtc aataatctct gaaaacactt tgtaattgtt cttgtgaatg aaaagggtgc 360  
 ctgtntcggg tggctgaaga ctatgaagag ttctctgtta tgttgccact atgcttctct 420  
 ccgttgctct catagtctct ttgtagtgat ggtagtcttt cataaata 468

<210> 13988  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13988

tatagaaggt tcgttcctaa tttctctaca atngcatcac ctctcatatg agctggtgaa 60  
 gattattgtg gcatttacct gnggtgaaaa acaagagcaa gcctntgctt tgctcanaga 120  
 aaagcttact aaggcacctg ttctagctct tctgacttt tctaaaactt ttgagctaga 180  
 atgtgatgcc tctggagtgg gagttggagc tgtattgtta caagggtggc accctatngc 240  
 tttatttagt gagaaacttc atagtccac cctcaactac cccacctatg ataaagagct 300

ntatgcctta ataagagccc tccaaacttg ggaacattac cttgtttcca aggaatttgt 360  
cattcatagt gatcatcaat cacttaagta cattagaggg caaagcaagt taaacaagag 420  
gcatngcaaa tgggtagagt acctagagca atttccatat gttatcaaat ac 472

<210> 13989  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13989

gcaagctntc gcactctctt cttcttctaa tctccgncta tttaaaccgt ttctgtgtgc 60  
atttgagcat cnggttcggc gcactcgagc atcgtcacaa gtctctgctt cttctccttc 120  
gctaccatac ctagggttg ttcgtctctt gtagtgctta actctactga gctttaaaag 180  
attggctaag attttggtta aacataagca cttaaacaat gaaggaaagc tggagttgct 240  
gcacatgatg tccaacgtta tgtcaaggaa taagatcggg ctgcacaatg cacaaggcaa 300  
gataaaatgt caaatgaaga attgaagttg caggatccac catgtcggat acaatgtcct 360  
gacatcctgc ccgagaatac tggcg 385

<210> 13990  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 13990

cgcacaaagg ccgagccaat tctaacgata ataacttttt actcggatgg ccgaaataga 60  
tctgtaatat atcgacacgc tcgaaactga atgatgaagc tctaagccta ttcaaacaac 120  
aataacgtgt tactcggatg tccgattcag agacgtaata tatcgagacg gtcgaaattg 180  
attgctgaac ctatgtgcca atttaaacga caataactat gtactcggat gtctgattga 240  
gtcccatcat atatcgagac gctcaaaatt gaatgttgac cctctgagcc aattcaaacg 300  
acaataactt ttactcggg tgtctgaatg agtctcgtaa tatatcgaga cgct 354

<210> 13991  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13991

ttccttgga gctaggtgct gtgaacaaac ttctattgaa acagcttggt caacccttgt 60  
tttaacaagg gcactagaga aaccagcttc tctcatgacc ctactaatgc tagggtcac 120  
aaggatagag actatgagct gctccatctc aatcttcaag gccagaatgg gttgctgctg 180  
gttctcaatc gaaccgcggc gttggtgagc ctgagcacgc ttgaaggctg caaccaaagc 240  
atnggaaagt gagggagtgg tggaatatgg aggactcaca agagggttg gtgtgggtgc 300  
tggcaaacgg ttgatgaaa cattgaagca aagttctagt gccttgatt ggagaggggtg 360  
agagtggcat tgaacgaaaa cattgaggag aaggcctgtg gaagtagcaa gcatgacagt 420  
ggcaatgtga agaggggcac ttgagcatg 449

<210> 13992  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 13992

ctatgctgca tagtgttaca atagacctac tctacctcag cagcaaaatc taccacagcc 60  
gaacaattat gacctctcca gcaacagata caaccctgga tggaggaatc acgcttatct 120  
cagatgggtcc agcctcagc aacaacaaca acagcctgct ccttccttac aaaatgctgc 180  
tggeccaagc agaccataca ttctccacc aatccaacaa caacaacaac ccataaaca 240  
accaaccatt gaggcccttc cacaaccttg catcgaagaa cttgtgaggc aaatgactat 300  
gcagaacatg catgttcagc aagagaccag agccttcatt cagagcttaa ccaatcagat 360  
gggac 365

<210> 13993  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13993

agcttgacct tcggcaaggc attcaccata tacgtattgt cgacgaggac atcccgaana 60  
tggtattntcg tactcaccat ggacattnta agtataaagt catgtcgttc ggactctgta 120

atgccccctt cgacatttca ggcgactatg catgatcatg ttagaccatt tcttcgcana 180  
 attgtcgtgg tctttnttga cgacatcttt gtcttcagct catcactttc aaaccacctc 240  
 aaccacttgg aagttgtcct taaaaatcta tatcagggcc aattatttct atgccattct 300  
 aagtgtttgt ttactcataa caacttacac tacctaaggc atatt 345

<210> 13994  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13994

gcttctgatt tcaatttcga tcgtcttgat ctnatactgt actcaatctg acatccgagt 60  
 taaaagttat tgcgggtttgc attggctacg agcttccgct ttcaactacg agcgtctcga 120  
 tatattactg gactcaatcg aacatcggag taaaagttta ttgtcgttag aatttgttca 180  
 gtgctttcgc tttcaatttg gagtgtctca atatattacg ggactcaatc gaacatccga 240  
 gtaaaaagtt atcgtcgnta gaatttgctc atagactttg tttgaatttg ctacgagctt 300  
 tcggttttcaa tgtggagcgt ctcaatatat tacgggactc aattggacat ccgagtaaaa 360  
 agttat 366

<210> 13995  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13995

tgatgatgtc gagaagacat cacatgtntg tcatcatcaa aaagggtggag aatgtgaatg 60  
 tatgtataca tgatnttgat gatgtcaaag aagaatcaaa caaggctgct tcaaatgata 120  
 agcatttgct tcaacaaaca aagccttggt tcaagattca cttaaagacca agccttgctt 180  
 tataacagag tgctttcaag atatgcaagg ctctggtaat cgattaccag aagacaggg 240  
 tgagaaatag ctgttgaaaa agatntatga atttgaattt caacatgtaa tcgattacca 300  
 gcaacgaaac tcttgaaatt caaatcaaaa gtcatgactc ttcaaattat aactgtgtaa 360  
 tcgattactc anacattgta atcgattacc aggtgaaaag ttttcagaaa atatgctaac 420

agtcaca

<210> 13996  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 13996

gatagatgac catttgctga gcatagtttt ttaaaagctt gtctgaagcc actctttatg 60  
 ttaaacaatca gagcaatgaa gttccgatga ttccacttta tgtcgatgat cttttggcga 120  
 caggaaataa tccagggatg attcaggaat tcaaacaaga aatgatgaag gtttttgaga 180  
 tgacagatct cgggttaatg accttctttc ttggatttga aataagcagg ctgagtatga 240  
 agtcttcatc tgccagaaga agtatgtcaa ggaaattttg 280

<210> 13997  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 13997

acatggtctg atggggccta tgcaagttga aagccttggg ggaaagaggt atgcctatgt 60  
 ttgtgtggat gatttctcca gaattacctg tgtcaacttt atcagagaga aatcagacac 120  
 ctttgaagta ttcaaagagt tgagtctaag acttcaaaga gaaaaagact gtgtcatcaa 180  
 gagaattatg agtgaccatg gcagacagtt tgaaaacagc aagtttactg aattctgcac 240  
 atctgaaggc atcactcatg agttctctgc agccattaca ccacaacata atggcatagt 300  
 tgaaaggaaa tacacgactt tgcaagaagc tgctgggtca tgcttcatg 349

<210> 13998  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13998

gcttgtgtcg cactttcaac tgccgattct gaatattttt ctgtaagaag ntggggggct 60  
 caaagtcttt ggatgaagca atgacttgaa gactctggag taattcttaa tcatattcct 120

atgaaatgtg ataacacaag tgctattaat ctaaccaaga atcctgtcat gcattctaga 180  
 actaagcaca tagaaataag gtatcatttt ctaagagatc atgtgtccaa aggtgactac 240  
 tactttgagt tcattgatag tgaacataat tagcagacat tttcacttaa ccttttgta 300  
 gagatagatt ctctcatatt agaaatgaac tacgcatatt ggatgcatct agcatagaat 360  
 aaca 364

<210> 13999  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 13999

tcgagcanaa tcagtccacg aaggaggcat atttgatata atgaaatctc caagcataat 60  
 gtcaggcaaa acgattcctt tcaatttcat gtcatagaca atgttttgaa attcatggat 120  
 ctgatctgaa atagattntc catcaatcat ttgaaactca atcatttttt cacaagagta 180  
 acgacttaaa cctttgtcag cagatccata tttcaattca agtgcttccc ataactcaac 240  
 agaagntttg gtatggcaaa caatcttata tatgttatca gccaaagcac ttaaaatgcg 300  
 tccatgacat aaaatatctn tatcaganac atcatgctta atggttgcat cagtttgaac 360  
 tatatcagta gaggaagtga agttttattt ctctttagaa atacagagt 409

<210> 14000  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
 <400> 14000

cgtaatcgat atcacatata cctgaatcga ttaccagagc agattttcat aacatattat 60  
 caacagtcac atctttttat gtggctcttg aatggctatc agaggcctat atatatgtga 120  
 ctcgagacac gaatttgcta agagttcttt agaacaaaaa ggtcttatcc tcttaaaaag 180  
 taaaatcggt ctatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240  
 ttatttgaat tctcaaattg ttcaatctat ctctctcaag agagatttct tcttttcttc 300  
 ttcttcattc tgaaaaggga ttaagagacc gagggctctt gtgtgt 346

<210> 14001  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<400> 14001

ttatgaccat ttaagcaaca tatacaatcc aggatggagg aatcatccaa aatatgagat 60  
 ggacaagtcc tccacaacaa caacaaccta ttccttcttt ccagaatatt gttgggtccaa 120  
 gcaagccata tgttctctct tcaatgcagc aacagcagca acagtcacaa cagagacaac 180  
 aaagcattag atgagttagt gaggaaaatg acaatccaga atatgcaatt tcagcaagag 240  
 acaagagcct ctattcagag tctga 265

<210> 14002  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14002

ctgaatggag gctctggtct cttgttgaat ctgcatgntt tgcataattca tttgcctcac 60  
 aagttcttca agggaaggtt gcggaggagc ctcaactgtt tgctgttttg gggctgttgc 120  
 tgttggtttt gttgctactg gattggtgga ggaacgtatg ctctgcttgg gccagcaact 180  
 ttctgaaaat aanggtgctg ttgttggtgt tggtgctgct gttgtgaagg aattgaccat 240  
 ctaaggttgn gatgattcct ccaccaaga ttgtacctgt tgctggagag gtcataattg 300  
 ttctgttggt gctgcttttg ctgctgaggt tgaggaggtc tgttgtagat gtttgcagca 360  
 taagcttcag gctgttcaat tgcttcagat tggtgcacag aagggcaaag gtttgtatgg 420  
 tggccacag aggagcatan accacagagt ctggcgata 459

<210> 14003  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14003

cagttgcatg aaccacacat gatgactcat taattcaatg gtttatgtta tattntttt 60  
 tcttccattn tctttcttag ataaactcaa agtaaaaaag aaaactttta tctgtttctg 120



ggacaccctn ttttgagtaa agttgtttgt acctctttct aaccacttta tttttcagca 180  
 ttggaagtct agggaaagac aactcaacag gcatagtcac gaaagtgatc ttggatacag 240  
 cagttcttag ggagactacc aacggtctca gaattaagac ttggcaggta gtatctcaat 300  
 cttgatgaaa attatcttaa tctttcaata aatatataat gtcattattc tagtttttat 360  
 cattattatc ccttggtgaa agaatatgtc acaccctt 399

<210> 14004  
 <211> 241  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14004

ctgcatctga caaagatgat ggcaaattctt cttcangata tgcncctctt gtaaattggng 60  
 gngcattcag ttggaaaagt tccaagcaag ctacggtagc agattcaact actgaagcag 120  
 aatatatagc ggcaagtga ggcgctaaag aagttgtctg gattaataag ttcatatatg 180  
 aacttggtgt gggtccttca atagaagagt cnggccatt attgtgagac aataatgggg 240  
 c 241

<210> 14005  
 <211> 224  
 <212> DNA  
 <213> Glycine max  
  
 <400> 14005

caatcaaatt aaatcttaga gggggaggtg agaatttgct tactatttcc cattgccaca 60  
 tcatatagtc acactttgtg catgtacttc atgctttaca tgctcatga cacctaagca 120  
 cacttagtgg agaatcttgg aattgatcct ggatcattgg gctgaaccat aactaaaatt 180  
 cactaatcat aattagtga atcttggtc caaagtttgg ctcc 224

<210> 14006  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14006

ttggatagtt aagccttatt ctaggccata cagacttcag tggcttagtg aagataaaga 60  
 ggtaanagtg actcagcagg ttgaggtgtg tctcaccatg gaagatataa tgataggggtg 120  
 ttgtgtgatg tgcgtccaat ggagggcgact catatactgt tgggaagacc atggcaatat 180  
 aacaccaaag cagtgcata tggcttcacc aacaagaatt cttccagca ccatgaccag 240  
 aagaatattc ttaaacctct accc 264

<210> 14007  
 <211> 327  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14007

gagttccagt gcacattcgt cttcttcttg tgtccagtct tcttctgac ttcattcata 60  
 gtgnngcttc cttctatgtc cagcatcttg ggatgttccc agcctttgat gacagctntc 120  
 caggttctgc tatccagtga tntgaggaag gccaccatcc ttgctttcca gtattcatag 180  
 ttggttccat ccagaattgg tgggtctgtc actggctctc cttctttctc catgttcac 240  
 agaaattatc tccctagatc tcaactcagt acttcgagt cccgctctga taccaattga 300  
 aattctgata ctggggacag atgtcgt 327

<210> 14008  
 <211> 186  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14008

gtactatcan gccaagaaga tattgtgtat gatgggtatg gaatattaca agaatcatgc 60  
 ttgtccgaat gattgcatac tgtacagaca tgaatttaag atatgtgcaa atgccctatg 120  
 tgtgttgtat cacattacan agtgaaggat gatgactact gtaatagtga tgaaaactca 180  
 aagaac 186

<210> 14009  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 14009

tttggtcaga gcttcaacat tcaatttaca gcgtctcgat atattacggg actcaatcag 60  
acaaccgagt aaaaagttat tctcgtttca atttgctctg aggttcagaa ttgaatttcg 120  
agcgtctaga tatattacgg gactcaatca nacgtcctag taaaaactta ttatcgtttg 180  
aattagctca gaacctcana atttcaattt gatcgtctcg atatattacg ggactcaatc 240  
atacatctga gt 252

<210> 14010  
<211> 222  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14010

tcattcagct tgaagagaat gtcatganac actgtatata ccagaagggtc agtggggagta 60  
agaattgttt ccttgattta tacgtagata atattctact tgccgggctaa tgaaagggtg 120  
tgttatatga agtgaaacaa tttctctcan agaattttga tatgaaggat atangagagg 180  
catcttatgt catangcata nagatccata gagaaagatc tc 222

<210> 14011  
<211> 274  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14011

tcttattcct ctccatagtt cataataagt ctntttaatc aatgggtccca tctatattat 60  
gttttgaaca tagcangcta tgtttaccgc ttctccctag aangtttttag gaaagtgagt 120  
ttcacaaagc atgggtcctag ccatttcttg cagaagttta tnntttcctt tcaactaccc 180  
gatttggtga ggtgttctcg gtgaagagaa gttaaggaag ataccattct nttcatagaa 240  
tgatttanac tcaacattct caaactcaat ttca 274

<210> 14012  
<211> 336  
<212> DNA

<213> Glycine max

<400> 14012

atgaaatgtg agaaatgttg atataaagat ttttggatta gattatttat atatctaata 60  
attacatata tattaactt aatttctttt tgtaaagtga cttattcccc ctgcatttgc 120  
ttcatttagt attactaatc atctatgtaa attaatttag atatgaaata aataaagata 180  
ccagatatgc tacctatttc tttccagatc actatgtaga gtcacctcgt tatcaatgac 240  
catgctgata ggaagtaa at cccgatgatga aaaatgaaca ggacatatgt catctaaata 300  
tttatatata aagaattatc tgacaaaaaa tactta 336

<210> 14013

<211> 212

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14013

ggagacccat tgaccagcac taatataaat gatgatctca gacactcagc tatccaacat 60  
acccattnta catagaagcc catatgctct agcatgtaga ggaggaactc ccagctcact 120  
gagtcatatg ctttcttata gtctagctta gagactaagc atcttttctt acatctcctt 180  
gcttcatcaa tagcctcatt agcaacaaca ct 212

<210> 14014

<211> 235

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14014

cagttgaata ttctgtgtt ccctgtatgc cttctcatca aaattcagaa aatttagagc 60  
ccaatatgct gtgtgttcca tttcaactcg gaaatgacat gattctccat acaccagttg 120  
ataaggagat aagccaatcg gggctcttga tgaagttctg taagcccaca gtgcatcttc 180  
caatntgggt gaccaatctt ttctagttga cgccactggt ntctctaata tcttc 235

<210> 14015

<211> 248

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14015

ctctcgagaa atccaatgct cattatctnt aactcggatg tctganttan gcgcataata 60  
tatcaagacg ctcgaaatng aacaacggaa gctctctaga aattgaaatg gtcataactt 120  
ttcactccga gggctcgantc aagtgcata tatatccaga cgcctcgaaa tgaacaatag 180  
aagctctcga gaaattcana tggtcataac cttaacttc gaggtccgat tatgcccata 240  
atatatcg 248

<210> 14016

<211> 114

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14016

gatacagcan gggagaatct aacacanttt cctctgacan acactntgtg atactcatca 60  
ctcttttctgt ctgtatgtca gaggggaatgt tgacaatgaa ttccctgact agac 114

<210> 14017

<211> 202

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14017

tcatcacttg cgggaatgga ttcgtgtgga ggacccctca ntatntgaga cagcccacgg 60  
aacaagtgct tgggtggcttc ttgagaaana ccctgaatat nttggtctct tcaatgaggc 120  
tatggcaagt gattcccgaa tagtatactt ggactcana aatagcactt cagttattga 180  
ggcgctagat tccatggtgg at 202

<210> 14018

<211> 206

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14018

tgcattggagt ggctgaaaga atggcagaaa ctcccttata cttcacctta catcaatgcc 60  
 tctcattngg atccccgtac tgatgtatct gagagaaaga tagtnggagt cttccatgag 120  
 ctcccttcac tcaactcca taagcanact gagcgcaaga acgttagcaa cttgcgtaga 180  
 cccttggccc tacctcatga agttac 206

<210> 14019  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14019

ggtgttattg aagaacatgc ttctgaaca taacacattg ccgaaaaatc actacgagga 60  
 aaaaaaagat tttgtgtcca gtaggaatgg agtacaggaa gatccatgca tgcctaatg 120  
 attgcatatt gtatagaaat aagtatgcaa aactacggca atgccccacg tgtgggggtat 180  
 cacgatacaa agtgtagtct gacgaattaa ctgatgatgc aagaaccaa aattgtcgtc 240  
 ctgcaaaggt ttgctgggtat cttccaatca taccaagggt taagcgattg cttgctaata 300  
 gacatgattc anaanacctt tcatggcatt cagtggacag aaaaagtgat ggcttactac 360  
 gacatcctac cgattcttca taatggaaga caattgattg tttgtatcca gagttta 417

<210> 14020  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <400> 14020

actaagcttc aatggtcacc gcttcattct tgtggcaata gattacttct atcaatgggt 60  
 cgaagcggct tcttatacta acgtcacgag aagtgtgggtg gtcagattca taaagagggga 120  
 gctgatttgt cgatacggac tccctaggaa gatcattact aacaatggca ccaatctgaa 180  
 aacaaaatga tgcaggaaat gtgcgaggat ttcaagatcc agcatcataa ctgcaccct 240  
 tattggccaa agatgaatgg ggttgataa gctgcaaata ataataataa gaagattgtt 300  
 cagaagatga cgggtgtcata caaagattgg catgagatgt tgcctttcgc cctgcacgga 360  
 tatagaacct 370

<210> 14021  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14021

taagcttact tactcccata cttctaccat gtgtaaaagt gttgttttct tcattctgcc 60  
 acaccattct gatccggaga actatgcata gtgtactggg taataatccc atgttcttga 120  
 agaaatgttg caaatggacc tgggtgcttg ccacctcggg tgtatctacc atagtactct 180  
 ccacctctat ctgatctcac gatcttaatt tgttttccac attgtttctc aacttcagcc 240  
 ttaaaaactt taaagacatc taaagcttca ttcttataat gaaggaagta gagagacata 300  
 tatcttgaat gatcgtctat aaaggttatg aagtcattca gactatgtgc attcatgtct 360  
 ggacaacata tgtctgtatg tatgatntct aataaattag aacttctttt tgcac 415

<210> 14022  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14022

atgatgttan tttatgggaa gtgaaagatg gacctcaagg ttctctcatt ccatgattaa 60  
 tcttatattg ttataacact tgcataaaaa ttgtttaaga tgttattgtt gctgctatta 120  
 ttattactaa atttgaatgg attgatatgt tgatatggaa tgaacatcat gatgaacttc 180  
 tacaaatttg catgaacttg tatgtatgcc tatgaacaag atgaacataa gaggaattaa 240  
 aaatatctag ccctttgatc tttatgcggg atgtgacttt agctactaat gctagtactt 300  
 acttatttta attattatta ttataactat aatgagaata tttatttgaa gacaaaaatg 360  
 gtctttatat a 371

<210> 14023  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14023

agctntgcaa ctnnttgtcc ctggctcttt tgtcaggatt caaactattc ctatactgga 60  
cgagtccaac caaccaatcc caaacaaggt catattccat cgactttttt ggtcatttaa 120  
ggcatgcatt gatgtgtttg cattttgtaa acccattgtg caaatcgatg gaacatggct 180  
atatggaaga tacaaaagga cattgttagt tgcaattgga caagatgggtg ctaataacat 240  
atttccattg gcatttgcca ttgtcgaggg tgagatagca gatgggtagc actttttttt 300  
tgcaaaactt gatagcacat atgacaccac aacatggat atgcttaatc tctgacaggc 360  
acgattcaat caaaagtgca tacagatgac ttgacagtgg gtggacagca gacaactaca 420  
tgtg 424

<210> 14024  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 14024

tgaaggagaa ctggatgcca tgggttaactt ggtaacctag ctggccttga atcagaaatt 60  
tgtatctgtc gcaagggttt gtggtttgtg ctctctgtct gaccaccata cagacctttg 120  
cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180  
caatagacct cctcaacctc agcagcaaaa tcaacctcag cagaacaatt atgacctctg 240  
cagcaacaca tacaaccctg gatggaggaa tcaccctaac ctcagatggg ccagccctca 300  
tcaacaacaa cagcagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360  
cattccttca ccaatccaac aacagcaaca accccagaaa catccaaca 409

<210> 14025  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14025

agcttaacaa aaggcatgcg atatgggttg ttttcctaga gcaattccct tatgttatca 60  
aacataaaaa gggaaaaggg tatattgtag ccgatgctct ttctcggcgt catgcattac 120  
tttctatgct tgaaacaaaa ttgattgggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
atgaaacttt tggagaaata tttaaaaatt gtgaaaaatt atcagaaaat ggtttcttta 240



gacatgaagg ctntcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300  
 attttcttgt ttgtgaagca catgaaggag gtttaatggc gcattctggg gtccataaga 360  
 ctctataaac attacaagaa cgattttatt ggcctcatat 400

<210> 14026  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 14026

tgatggaaaa ggaggtgtta gagaaagctg gagtctatgt gttatgccca tcgttctggt 60  
 aaatagaaat ttatcttaac ttataacgcg tttggtaggg aagaatttga aagcttggaa 120  
 gcaatgccta ctccatgctg aattttctta taataaggta ttaagctgta ctacttattc 180  
 tccttttgag gtagtttacg ggttctagtc cactgccctt tcttaatttg ttaccttggc 240  
 ctaacacttc tgctttgatg aatacgaatg ggctttctaa agccaatttt gtaaagaggt 300  
 tgcattgatat agggaaaaca caatttgaga ataagaatga acaatatgct ggatattcca 360  
 ataaggcgag aaagacaatg a 381

<210> 14027  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 14027

cggaagctct cttgataatc tagtggatc aaattttcac acagatgtcc' gattcgggga 60  
 aataatatat cgagacgcac gaaattgaac aacggaagct ctcgagaaat ttgaatggtc 120  
 ataacatttc actcgatgt tcgatccggg gacataattt atcgagacgc tgcgaaatga 180  
 acaaccgaag ctctctacaa attagaatgg gcgtaacttc tcacgcgaat gttccatttc 240  
 gggacataac tt 252

<210> 14028  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 14028

tctatgggtct atngtcttct gcagatcacc atacagatct ctgtccttct ttgcagaaat 60  
ctggagtcaa tgagcaacct gaagcttatg ctgcaaacat ttataataga cctcctcagc 120  
agcaaaacca acaatagcag aataattatg acctttcgag caataaatac aatctaggtt 180  
agaggaatca tccatatcta agatggacaa gtcctccaca acaacaacaa catgtccctc 240  
cgttccagaa tgctgctggt ccaagcaagc catatgttcc tcttccaata cagcagcaac 300  
aacaacatct gtcacaacaa agacaacaag caactg 336

<210> 14029

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14029

cttgatatat tttatggact tatgggcact atgaacgaca aattccttgg gataaaggta 60  
gtgttgccat gttttcaaag cccatactaa ggcatacaat tgttcttctc taagcacagt 120  
caagacagat tttaaataat caatatgcaa atcaagtga gcgctataga taagaatata 180  
ataaaagtac accacaacga actttcctat gaactctctc aagatatggt tcattagtct 240  
catgaaagtg ctatgagcgt tagttaggcc aaaatgcata accaaccatt catacaaacc 300  
atattttgtt taaaagcagt ttccattcat ccncttctct aacctaattg attgatccac 360  
ttttaaatcg atgtagagaa gtacatgcat catgaattca tcaagcaatc a 411

<210> 14030

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14030

actacgctga tctgaactga tctgatcctg aatcaatttc ctggtgaacc ttgaagtgtt 60  
cttgattcaa tcttgaactc attctttgat tcttgagatc atcatctctg ctatcatgaa 120  
gtgttcttga cctttgagct nttttcatc acctttgtta tcatcaaaac ttctttgaat 180  
caatcttgat tcatcataaa tcttgcttct acaagatgga tactgttgct tcaagaattt 240

gatttagtca tcaatgacaa gaaaggttct gaaaatgtgg tagcagacca cccatccata 300  
 ttggtgaatg aagatgtcac ttcaaaagag gctgaaataa gagataaatt tcctgatgaa 360  
 tctttgtttt tgatcgcaag gagaccctgg ttcactgata tggctaattt caatgcggaa 420  
 ggtgtcatat caaaagatct aa 442

<210> 14031  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14031

agctngetcg tcttgctgat nattatcatg tctacttttc tgangatgac cgaggaacaa 60  
 ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct tttccactt 120  
 gtgaagatgt tcaaagtttg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180  
 cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca gcatccgttg 240  
 aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300  
 tgtgggtcaa tgacttgatg gtatgttaca ccgagcggga gatattcaag tcgcttgatg 360  
 atattgatat tattcgaaca cttaccgcan agaagtctcg gaaaggac 408

<210> 14032  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14032

agcttcacan aagmntatat ggcttgaatt ttgcaccgag ggagnggtac aagaagttta 60  
 atgagtttat gagcaactca ggattcaaaa gatgtgacat ggaccattgc tgctatngta 120  
 aaaaatatac taatagttat gttatccttg tcgtgtatgt tgatgacatg ttgattgcag 180  
 gatctagtat ggcagaaatt aacagggtga agcagcagtt ggcagaaaac tttgaaatga 240  
 aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaac agatcaaaag 300  
 gaattttgaa gttgtctcag gagaaatata tacacaagtt gtttgacaag ttttaccttg 360  
 aagattctaa gaccaggaat acccctttgg gatcttattt gaaagtttca ag 412

<210> 14033  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14033

taaattttga gaacaaaaaa aaacaatcaa aaataaaaat tgttacctta actccctctt 60  
 cctctatttc taattatcca agttttttac ttattcatgc atagttnntt tactgaagtg 120  
 tattattata agtatttata taactatttt ttttaattaaa attagagttt tactgtggta 180  
 aagtgttcaa tttttattgt ctttattgtg cgagttacta agtgaaactc taattttagt 240  
 ttaaaaacat tagaaaaaac atttaaggta ctactcttac gttttataaa aaaataaata 300  
 gaatagattn tggcatatat tatgaaatac aaaacaatac ttagtcgata aattntaaat 360  
 agacaaaaag taatcaattc acctaa 386

<210> 14034  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14034

gagtatgtaa aactcagata ttgcactatg aacagtgtta aaattctgat gtcattcttt 60  
 ctgaattatc agaatagttt atggtttgca aattgcttgt aggaacaatg ttttgaagga 120  
 ccaaagatct aaaaccctca aacaacagag agaggaaaaa cggaaagctg atgaagctag 180  
 tggagatact aaagcatgga atagtctgtt catgcgtcct gatacagtat gttcttgaaa 240  
 cttgataaat ngcaaaccct tattctagta tttcagtttt tgggtgaatag ctgagtagtc 300  
 aacagtaaat taaaattctg aattatgctt atcaatatct taacttttca aataaaataa 360  
 caaccttttc ttattagttt tcagcttttc cccaatatgg tgcttgccca tg 412

<210> 14035  
 <211> 159  
 <212> DNA  
 <213> Glycine max

<400> 14035

taactcttca cactggtgtc cgattcatgc tcatcatgta tctggacact ctaaattaaa 60  
 tcattctgaa actctcgaga aattcaaag gtcataacat ttcacactga tttgcgattc 120  
 gggggcataa tacgtctaga ggctcgaaat tgaacaacg 159

<210> 14036  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14036

aaacataaga gatgagttca attgtatatt tgaattgttt gtgaaatttt tttgacaagt 60  
 caaaaactttg tctaagacag aagaaatgaa ctttttaaaaa gattcatcct aagggtgaata 120  
 tataaataat tgggtctagc tgggaggaac acaatttata aaataactta gcaaaaatct 180  
 ttttgataac ttacaaactg tacaattaaa tctctctttt aattagggtt aagtттаааа 240  
 cgattcaacc ttatgttaat gataacaaca aagaaaaata ataaaaataa aacacaatta 300  
 gccaacatta tgtattcaaa ttgaattgat tcttaaaata ccccatgt ttatttttaa 360  
 atntaccaat atcgcttacc gtacaatact atatcaatgt atgtatgaaa caaccatgtn 420  
 anaatcaca 429

<210> 14037  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14037

ttaagtcac agagtcacct cccctatgcc aacaatcttg cttgtgacaa ggttgcccgt 60  
 cttcactgta ccaaaatccc cttntgata tgacgagaaa aatccttcat aagtagtaac 120  
 atggaaggat gctctagatt caattatcca tgtaaaataa ttagatgcaa tatttaaata 180  
 atattcatta ccaataagaa aaacattctc atcgctgat gtcacaacag tagtggttct 240  
 accttcattc ttcttctttt ggtcaatttg attagcatgg acagttctag tcttctaacc 300  
 tctcttcaag aatctgcact caaactttnt atggcttgaa tttccacagt agtagcaact 360  
 caagcctttg gggtgagact tggatctttc tc 392

<210> 14038  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14038

accgggacat gtggatcgtg tgggtngatg gatcatcaaa cgttctaggg catggcattg 60  
 gagcagtatt ggtctctcta gacaatcaat gtataccttt catatccggg ctgggggtttg 120  
 actgcaccaa caatatgggt gagtatgaag cgtgcgccct ggccatccag gcggcaattg 180  
 actccaatgt caagctactc atgggtgtacg gtgactcagc actgggtgatc caccagctga 240  
 gaggggaatg ggaaactata gaccccatgt tgatacccta ccaagcctat atcaatgaaa 300  
 tggtctgggttc ctttgatgag atcttcttgc atcactgttc ccgagaggaa aataaaatgg 360  
 ctgatgcgct cgccactttg gcgtccatgt tccaactaac accgcacgac gacctaccgt 420  
 acattgagtt c 431

<210> 14039  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 14039

actgaatcag acatcagagt aaaaagttat tgctggttga attatctcag agcttcggta 60  
 ttccagtcgg agcgtctcga tatattacgg cgctcaatca gacaaccgag taaaaaagtt 120  
 attgtcggtt gaatttgctc aaggcttcgg aaatcaattt cgagcgtctc aatatattac 180  
 ggtactcagt cagacaaccg agtaacaatt tattgtagtt tgaagttgct cagagcttcg 240  
 gcattcaagt cctagcgtct cgatatacta cgggactcaa tcagacatcc gagcaaaaag 300  
 ttattgtcgt ttgaattt 318

<210> 14040  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 14040

ctatatgaga catcttgtct aacaaatgca cgtaacgag aactcgctg tgctttttct 60

tccatgctat aggtatcaaa gtcattgatc caatcatgtt tgatgatcgg gaaaatgagg 120  
 cctgtaatat actgtgccac gtggagatgt agtttcccc tgctttcttt gacatcatga 180  
 ctgacttgag ggtgcatctg gtcagataaa tcatatgttg tgggcctgta tatctacggg 240  
 ggatgtactc ggttgagcga tacatgaaga tcttaacatg gtatacagag aatttataat 300  
 gcacacaaac acccattg 318

<210> 14041  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14041

acacttctta tgttggttag agctcggaga aagcctcacc ttatgaccga aagtggtaga 60  
 acaaaccacc gagaaagttt atttaatcca ggaaaggatga ggactgctca aagtangcaa 120  
 aaaatttatc atgataagag gaggaagat ctggaattcg aggttagtga tcatgtattc 180  
 ttgagagtca ctccatggac tggggttggt caagcattga aatcccgaaa actcacctcg 240  
 ctttattggt cttttccaaa ttcttaagag agttggccct atggcatacg aaattgcatt 300  
 acccccatct ctttctaate ttcacaatgt ctttcatgtg tttcaacttc ctaagtatat 360  
 ttatgatcca tcccatgtga ttgaatngga tgat 394

<210> 14042  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14042

tcttactccc ttgacattca ctgaaggagg tagcttgtea atcacatcaa tcttagctnt 60  
 gtctactaca atccccctca cagagattat gtggcccaat acaattcctt cttgaaccat 120  
 aaaatgacat ttttcccaat taagcactat gttggtctct tcacatcggt gcaagactcg 180  
 ctctaaattt gctagacagc aatcaaaaga tgagccgaaa acatagaagt cattcgtaaa 240  
 cacttcaatg cacttctcca ccatgtcagc aaatattgcc atcattcatc gctgaaaatt 300  
 cttatgagca ttgcaaagat cgaagggcgt tcttctataa gcaaacacac caaaagggca 360

ggtgaattct gtcttttctt ggtcatttgg atccatagca atctgattgt aaccagagta 420  
tccattcaag aaacagtgaa atgatt 446

<210> 14043  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 14043

agcttataat atatcgaggc gctcgaaatg tttacttttag ctcttgagaa attcaaatgg 60  
tcataacttt taactcggat gtccaattca tgcgcatcac atatagagac gctaaaaaat 120  
gaacaacgga agctcttcaa aagataaaat ggtcttaagt tttcacactg aggtccgatt 180  
caggcttata atatatcggg gcgctcgaaa ttgaacaacg gaagctctcg agaaattcaa 240  
atagtcataa cgtttaactc ggatgtccga ttcatgcgca tcacatatag agacgtcaa 300  
aaatgaacaa cagaagctct cgagaaatta aaatgggtcaa aacttttgac act 353

<210> 14044  
<211> 362  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14044

gagccaattc aaacgacaat aacaatttac tcggatttct gattgagtcc cgtaaaatat 60  
caaaacgctc aaaattgaat gttgaagctc tgagcaaatt caaatgacaa tcactttttt 120  
actcggatgt ctgatggagt cctataatat atcgagaggc tggaaatgga ataccgaagg 180  
tttgagcaaa ttcaaacgac aatattgttt tactcggatg tctaattgac tcccgaata 240  
tgtggagacg ctcgatatgg aataccgaat ctctgagcaa attcgaacga caataaattn 300  
ttactcggat gtctgatnca gtctgtaat atatcgaaac gctcgatatt gaatgttgaa 360  
gc 362

<210> 14045  
<211> 398  
<212> DNA  
<213> Glycine max



<400> 14045

agcttgctgt aggccataaa tcgccttggt atgtctgcaa acttggtgct tggtggaaga 60  
cacaaaacca ggggggttgaa tcatgtaaac ctcttcctca agaacaccat tgaggaaggc 120  
attattaaca tctagtttct gaagaggcca gttgtgagac agcaagagaa agaataagtc 180  
tgatcgtgac aggttttgatt acaggggaaa aggtctcctt ataatcaaac cccaattgct 240  
gatggaagtc tttggcaaca agcctggctt tgtacttatt aacagacca tctggatttt 300  
ccttgaccct aaaaacccat ttgcacccaa ttgttgttct ggaagcagga agatcaacca 360  
aggtccaagt gtcatttctc atgagtgcac cataactca 398

<210> 14046

<211> 441

<212> DNA

<213> Glycine max

<400> 14046

agcttatgct gcaaacattt ataatagact tcttcagcag caaaaccaac aacagaagaa 60  
taattatgac ctttcaagca atagatacaa tccagggttg aagaatcatc caaatctgag 120  
atggacaagt cctccacaac aacaacagct tgtccatcct tttcagaatg ttgttggtcc 180  
aagcaagcca tatgttcctc ctccaatata gcagcaacaa cagcagtagt cacaacaaag 240  
acaacaagca gttgaggctc ctctcaacc ttccttagaa gagttagtga ggcaaatgat 300  
catccaggat atgcaatttc agcaagagac aagagcctcc attcaaagta tgacaaatca 360  
gatagggcag tggctactca gatgaaccaa gtcagtcctc aaaattctga ccaattgctt 420  
cacaactgtg cagaatcaaa a 441

<210> 14047

<211> 391

<212> DNA

<213> Glycine max

<400> 14047

agcttagtgg cttagtgaag atgatattta aaagtgactc aacagggtga ggtgtgtctc 60  
accattggga gatataatga caagggtgctg tgtgatgtgg tcccaatgga agcgacccat 120  
gtgctgttag gaagatcgtg gcagtatgat accaaggcag tgcattgatg cttcaccaac 180

aacatctctt tcaagcaagc tgacaagaag attgttctca aaccggtatc tcctcaagag 240  
 gtttgtgagg atcagataaa aatgagagaa aagaaaaaga gtgagacact cgagaggaaa 300  
 aagagtgaga cacttgagaa cgaaaagtga ggaaagaata agagtgaaac actcgagagg 360  
 gaaaagagag aaaacaaaaa gagtgaaca c 391

<210> 14048  
 <211> 222  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14048

agcttctggt gttcaattnt gagtgtctcg ttatattatg cgctgaatc gaacatccga 60  
 gtgaaaagtt atgagcatct gaatttcttg agagcttacg ttgttcaatt tcgagcggct 120  
 ccacatgtga tgatcctgaa tcggaccacc gtgtgtatag ttatgaccat ttgaatttca 180  
 cgagagcttg tgttgtcaat ttcgacggtc ttaatatgtg at 222

<210> 14049  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14049

agcttgngcc cattctgatt cttcttattt ctactcaact aggattctca aagaaggagc 60  
 ctccaactca aacgggagca caaccttcat ccatacacc aaagagaaag gggttgcccc 120  
 aatagatgtg cacacagaag ttcgataacc atgcaatata aaggggagca tctcgtgcc 180  
 atccttgtat gacacggta tctcctaaac tatcttctcg atatttttat tggcaacctc 240  
 aattgcccta ttcattcttg gccgataagg catggaatta tgggtgttga atttgaaatc 300  
 cttacatatt tccttcatca tcttggtgtt cagattagtgt gtagtatcgg tgattatttt 360  
 cctaggcaac ctatatcngc aaattatctc tttcttgatg aatctaata ctacattctt 420  
 aggcacacta gcatat 436

<210> 14050  
 <211> 359  
 <212> DNA

<213> Glycine max

<400> 14050

agcttgtaat cgattacaca cttacttgta tctaataaca gaggagattt tcagaagata 60  
ttctcaacaa tcacagcttt tcatatgggt cttgaatggc catcaaaggc ctatatatat 120  
gtgacttgag acatgaatct gctaagagtt tttcaaaaca acaagtgttt attctctcaa 180  
aaagcaaaat ccgtttatcc tcttaagaac tccttggcca attcaattgc aattcattaa 240  
ggaatcattt gagtgtcag attgtaaaat ctatctcttt caagagagag tcattcttct 300  
tctctttcta attcactaag ggattaagag accgaggggc tcttggtgat aagaattct 359

<210> 14051

<211> 387

<212> DNA

<213> Glycine max

<400> 14051

taaatatgag cagatgttat cagaccttac aaagaatctc ctgctatgaa aagttgtcgc 60  
atgtaagttg atgctaattc ctttttctgc tactaacaga taagttactt attgtgaatt 120  
atgttttctt taataccttt ctattaatga tatttggata caactacaga catgtacaca 180  
gtggaatata aaaaacgagg acttctcat gtccatttat ttttattttt acatgccaac 240  
aaciaaatat catctccaaa cgatattgat catattatat cagcagaaat accttgacag 300  
aaagatgata cagaactcta taaattagt caaaatcaca tggttcatgg tccatgtgga 360  
attttgaggc ccgcatctct atgcatg 387

<210> 14052

<211> 245

<212> DNA

<213> Glycine max

<400> 14052

tttcaatttc gagcgccacg atatagtacg ggacacaatc ggacatccga gtaaaaagg 60  
atagtttttt gaatttcctc agagcatcag ttttcaattt cgagtgtctc catatattac 120  
aggactcaat cagacatccg agttaaaggt tattgtcggt tgaatatgct acgagcttct 180  
gttttcaatt gcgagcgtct agatatacta agggacacaa tcgttcattc gagaaaaaag 240

tgaat

245

<210> 14053  
<211> 396  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14053

agctntcatt cctatttctt ttctcacttc tgcattcata attaaaacaa agtactagtg 60  
ttacattaca cacaaatata ctttggttca gtttcttctt taaatgaaat attaattatg 120  
cttgaagaat cttttaaaat tccaatttcc tcaatttgat tatctttata tctcatggaa 180  
gatttttaat aacaagttaa tacataatgt aattaaagtt ttcaattgat taattttttt 240  
tttaaagac atccataata aacaattact atatatacaa aagaaaacaa aaatcggttaa 300  
aacacatact taaacaacaa taatcataac tagtatggat gtatgattnt ctaaagtta 360  
acacaaatct atgttgtaat tcaattntac atcatg 396

<210> 14054  
<211> 318  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14054

agcttctcca taatttccac atgtctcact tacaggtaca aggggaagtat tctccaaatt 60  
aaaaacccta tattacgcta gcccttcact cttccctcac tctaggtact cttcttcgtg 120  
gtatccaaag cccagaaaca ccccttcata atattgtcaa tgtaggtgaa atcccttgcc 180  
acagttcccc catcaagaga ctngaatatc ggaatatgct tccccttgag aatgtccttc 240  
gtgggtaatg gggacaacgc caaagagcat gcaaaggagg gcaacatcat tgaggttggt 300  
gtcaacgaca aagatgct 318

<210> 14055  
<211> 397  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14055

cccaccattt tgtcatagaa aacactgggt atgtgtctac tattattgtg atcatctctt 60  
tctccgtcat tgtagggtgcc acttgagctg ctagatccct ccacctctgg acatattgct 120  
tgaaggattc atgctctttt tcacacatgt tctatagttg catgctatcc gaagccatat 180  
caaaattgta ctgatactgc ttaacgaagg caaccattat gtcccttcaa gaatggactc 240  
gggaagggtc caagttagcg taccatggaa cagctacccc agtaagactt tcttgaaga 300  
aatgtatcag tagttcctca tcttttgcgt atgcccccat cttccgacaa tacatctnta 360  
gatggtcctt ggtgcaagta gtccacttgt acttgtc 397

<210> 14056  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 14056  
atccttaagc gacctgcggc tgcagcttga gcaatgaaat gacatatctt atatcacgga 60  
tgtccggttg agtcccgtaa gatatcgaga cgctcaaaat ttagatccga agctctgaga 120  
aaattgaatt gacaataact ttatacacgg atgtccggtt gagtcctgta atatatcgag 180  
acgctgcaaa ttgaaaacgg aagctcgtag gaaattcaaa cgacaataac tctttactcg 240  
gatgttcgat tgaatcgggt aatatatcaa gacgatcaaa attgagacta gaagctttga 300  
gcaaattgaa atgacaataa ctttatacac ggatgtccgc gtgagtcccg tgatatatcg 360  
agac 364

<210> 14057  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14057

cagcttaaga ataatggtct caacaaactg cttatttcta tattgaaatt caatcaatag 60  
acctccaatc tttaatggag agggttacca ctactggaaa acccgaatgc aaagttttat 120  
tgaggcaata gacttaaaca tttgggaagc catagaaata aggccttata taccaccac 180  
agtagaaaga accacaatag atggaagcac aacaagtgga agcacaataa tagaaaaacc 240

tagagataga tggctctgaag agtatataag acgagtaaaa tataatttaa aagccaaaaa 300  
cataattaca tctgccctac gaatggatga atatttcacg gtttcaaatt gtaagagtgc 360  
taatgaagtg tgggacactc tacatgtaac acatgaatgg cacatagatg ttanaagatc 420  
tatgataaac acattaactc atgaaatatg aactatt 457

<210> 14058  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14058

agcttaagaa aaagatggcc tcagtattct tcttatttcc agaagggaat tctatcaata 60  
gacctccaat ctttaatgga gaggggttacc attactggaa aacctcgatg caaattttta 120  
ttgaggcaat agatctaaat atttggaag ccatataaat agggccttat ataccaccca 180  
cagtggaaag agtttcaata gatggtaggt catcaagtga aagaataact atagaanaac 240  
ctacagatag atggctctgaa gaggatagaa aacgagtaca atacaactta acagccaaaa 300  
atataataac atctgccctg cgaatggatg aatatttcag ggtttcaaatt tgtaagagtg 360  
ctaaggaaat gtggaacact cttcgattaa cacatgaagg aactacggat ggtaaaagat 420  
ct 422

<210> 14059  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 14059

atttattatg aaaacattca agttcaaaga gacttgaac tcatggcttt ttacctggt 60  
tccccaccta gcatgcgact ctagaattat gctttcttct tgcgggtgta ttggaccctg 120  
cgtgtggtct ggcctcaagt aattcaccca tcttaatctg cagctcttcc catttcgttt 180  
agtgtgtgag agagaataat aattgatcaa tcatttggac aaaaaaagag atgataaaaa 240  
cgatgatgaa gaatgatact catgagtcaa gagttaagaa taatataaaa catgatctcc 300  
aaaggctaaa tgaaaaactt atgtgtaagg gt 332

<210> 14060  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 14060

gaaggtctta aattttgatg agactctatc aggggaaaag agaaagttgc aactcttgga 60  
 gctgatagag atgaggttga atacttatga gtcttcaaga ttgtacaaag aaaaagtgaa 120  
 ggcttgtcat gacaagaagc tgataaagaa agaatttagg ctcaaccaac aagttctgct 180  
 atttaactca agagtgaagc tatttccagg caaggtaaag tctaaatggg ctggaccatt 240  
 caccatcaat gatgtcaagc cttatggagc agctggaatt attgaccctt agtcagaaac 300  
 tttgaatata atatggatag tgaatg 326

<210> 14061  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14061

tgatgctcag aaacagcaat atccaccact ccttcagttg gtctgccan gtatttgntg 60  
 attacagcan gggagaatct aacacatddd cctctgacna acactttctg atactcatca 120  
 ctctttcntg ttgtatgtca gagggaaatgt ngacaatgaa ttccttgact agacttttat 180

<210> 14062  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14062

gtaaattcga gcctctcgac atattatgcg cncgaatcgg acatacgtgt gagaattcat 60  
 gatcatttga atntctcgag agnttccgat gtntaatntc gagcgtattg atatattata 120  
 accctgaatc ggacctcagt gtgacaagtt atgaccattt tgaattgacg agagcttctc 180  
 gtgttcaatn tcgaatatca ctatatgtga tgcgcctaaa ttggacattc gagttaaagt 240  
 ttatg 245

<210> 14063  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14063

gcgtgtatat gagttatgtc cccgaatcgg acatctgtgt tgaaagttat gaccattcga 60  
 atttctcgag agcttccggt gttcaacttc gagcgtctcg atatattatg accccgaatc 120  
 ggacatctgt gtgaaactga tgaccattct attntctcga gagcttccgt tgatcattcc 180  
 gagcgtctag atgagttatg tccccgaatc ggacattcga gtgaacactt atgaccattc 240  
 taatttctcg ag 252

<210> 14064  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<400> 14064

tggtgaagta acccggcttc tggtgtggca agtatagggt ttgcttaca atagtgtagt 60  
 tgcaaacaaa atcttttagtg tcaaagtaca tgtgttggat cgagtggcct cagaataatt 120  
 aagaacgagg ggtttaatta attattccta agcctttact aattaaaaat ttactcttct 180  
 aacgctttta ctatgttggt aagagaataa ggagtagaag agaaacttaa ccaaaagtaa 240  
 aagcggaaat taaaatgcac agcggaaagt aaaagagtac ggaagaagga gacaaacata 300  
 caagagtttt tatactgggt cggcaacaac tcgtgcctac atccagtccc caagcgacct 360  
 gcggtccttg agatttcttt caaccttgta aaaatccttg tacaagcaaa gatccacaac 420  
 ggatgtaccc tcccttggtc tctgtgaacc tactggatgt accctccact agaactg 477

<210> 14065  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14065

ntgattgtga atgagttggt cacaatgcta gctntttct tctgtacatc ctaataatga 60  
 atcaacaata aatgggtgct gaatgaacaa tagatgggta attaattaac tagcactgca 120



caaaaaaat gaaattttgt taagatctca ttgatcagaa ccaagcaacc cactttcttc 180  
atcatcattt ttattttccc gctctgttgt tttctgagct agctccactg cctctttaca 240  
ttgctgctcc caatctgttt gaatcaatgt gtaaaccatc atacaaagac atgaagcctg 300  
tgcagccacc attccagacc acaaaccac caattcatat ttatatatga atgtagcaaa 360  
aacagaaact ggctatccaa ctagataaaa tgcacatcaa gttattctgg cacccaaata 420  
atgcctagca gtgcctgact aaatcccaca tg 452

<210> 14066  
<211> 392  
<212> DNA  
<213> Glycine max  
<400> 14066

tgtttcagtc catttagaga tagtgctaac cttgacgcta gatcgggtgca cgggttgtgc 60  
caaatgtacc atatgctcag aaattatttt gcacaccga tagaactcct aggtgacgtg 120  
ggtcattgtg aatgtcgttt cagtctgttt gggggcgtgc tattgtcact gcaagatagg 180  
tgcacagatt actccaaacg taccataggc tcataaatca ttgtgatcgc acccgatggg 240  
actcctacga gacaacgccc aagtgaagc acgtgtcaat ctgattggag atagtgccta 300  
tcttgacaca agaatggagc acggttcgtg ataaatgtac tatatgctct acaatcattt 360  
tggatgccct ctattgaact aatcactgac ct 392

<210> 14067  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14067

aggacttcct gtgtttgnga acctctcctt cctcaggtgt acccaaacc aatcacctgg 60  
ttcaagcacg actttctttc tgcttttgta ggcttgctt gcatagctat cattattctt 120  
gtcaatttga accatcactt gctcatgcaa cttcttgaca tactcagctt tagcctgtgc 180  
atncttatgc ttatgcattg cantgttaag catttgcaac aaatctagat gagtcaaagg 240  
attaaatcca tacactatct taaatggcga acaattagta gtgctatgga cagcccgatt 300

ataagcaaac tcatcatgag gcagacaggc ttcccaagat ttaagatttt tctgtaaaac 360  
 agtcctaagc agtgtgccta aagtgtctatt gactacctca gtttgaccat caattcgtgg 420  
 gtga 424

<210> 14068  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14068

tcttgaagtt gttttctttn tgagacttct tcagaagata gttgtctatg gcttgtgtct 60  
 tcctctagtt tatttatttc agcctccacc ttcttaaccc ttttgagagt atctccaaac 120  
 tgttcctgat tccagatctt caaccttctt tttagtctct taatcttttc tttcaagaca 180  
 taccaccccc agcctgggtg ctgatgcgaa ttccagcttt ggtacacaat ctctttaaag 240  
 gatttatctg ataaccagca atcaagtatc ctaaaaggct taagaccca atctgttacc 300  
 ttggaacgaa gaaggattgg acagtggctt gaaaagtttc ttgccaaagt agattgatag 360  
 ctgccaggcc atctttcaat ccaactcatga gagaccaaga acctgtcaat cctgtctcta 420  
 gactccccat ttggtctata ccacgtgtag tttctaccaa tccatg 466

<210> 14069  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<400> 14069

tcacaacaat tactttttaa gaattcttta atttctaaaa ttaatctcca ccaaatatgt 60  
 actaaatgga aaaataagaa gaaaaataaa actaagctca actattatgt gatactaaaa 120  
 gtaagtaata aacttatcta taaacacata ttaatatgta gttaggttct ttggacaaac 180  
 ttccttataa atacttatta aaaaaagtaa aggtaaaatg tattgtgttt ctttaagtaa 240  
 gcttaaaatt aacttattaa tttttggaga atttatgaaa agaaattcta taaacgttaa 300  
 ttatataagt ttttgtaaag taaatgtata agttaattct agtttataaa aaactgaata 360  
 cattcttact ttcttatcta ttatctact ataggatatt ctagaagaat ttatctatat 420  
 aagaccttaa taccacaata aatattaatc aatgata 457

<210> 14070  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 14070

ctaaatcgaa gaacaatctc ataattattc ccataaaact aaaacttaaa aaaaaattag 60  
 atatggcctg tgcttatgaa taaattataa ggtgatataa atttgttgta tatacatgaa 120  
 aatatgataa caatttttcc attttttcta ctaattcata ttttaaactt attaacttca 180  
 tcttaaatta tattataaat tggacatttt tacaatattt gtcttttaaat ttatattgaa 240  
 aagacaaatt gctataaagt acttaattta ccgtttgtaa ttacccttaa ctaaaactaat 300  
 aaaaatataa acttatcttt tcaatagaac tttttaaaat tgtatattta tattaaatat 360  
 ttatgttata ttatatattt attattataa tctaaatatg catgaaggaa ggcaataata 420  
 ttatcttaat taatatcttt attgcgt 447

<210> 14071  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14071

tgtaatcgat tacacacata ctgtaatcga ttaccataat agattttcag aaaatattct 60  
 caattgtcac atcttttcat ttggctcttg aatggctatc aaaggcctat atatatgtga 120  
 cttgagacac gaatttgcta agagttttcc agaacaaaaa ggtcttatcc tcttaaaaag 180  
 caaaatcggt ttatcctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240  
 ttatttgagt gctcaaattg ttcaatctat ctctntcaag agagatatct tcttcacttc 300  
 ttctttattc tgaaaaggga ttaagagaag ggattaagag accgagggtc tcttggtgtg 360  
 aaagaattct aaacacaaac gaaggattgt tgctgtgtgt ttagaacttg taaaagggaat 420  
 ttacaagata gtggaactct caagcgggtt gctcgtggac tggacgt 467

<210> 14072  
 <211> 467  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14072

actaagctta acatcagacc acttccgggt gctggaacta cttcacatgg acttgatggg 60  
gcctatgcaa gttgaaagcc ttggaggaaa gaggtatgcc tatgttggtg tggatgattt 120  
ctccagattt acctgcgtca actttatcag agagaaatca gacacctttg aagtattcaa 180  
ggagttgagt ctaagacttc aaagagaaaa agactgtgtc atctagagaa tcacgagtga 240  
ccatggcaga gagtttgaaa acagcacgtt tactgaattc tgcacatctg aaggcatcac 300  
tcatgagttc tctgctgcca ttacaccaca acaaaatgac atagctgaaa ggaaaaacac 360  
gactntgcta gaagctgcta tggttatgct tcatgccata gaacttgctt ataattctctg 420  
ggctgaagcc atgaacacag catgctacat acacatcaga gtgacac 467

<210> 14073

<211> 387

<212> DNA

<213> Glycine max

<400> 14073

gacacttaaa actcagctta acattcaact tcgagcgtct cgattatgac gagtctcaat 60  
cttacattcg agaaaaaagt tattgtcatt tgaatttgct cagagggttca acattcaatt 120  
tcgagcgtct cgttatatta caggactcaa tctgacattc gagtaaaaag ttattgtcgt 180  
ttgaattagc tcagagcttc cacattcaat tttgagcgtc tcgatatatt acgggcctca 240  
atcagacttt cgagtaaaaa gttattgtcg tttggattgg ctacacagatt catacattca 300  
atttcgagcg tctcgtctta tgacaggact ctatccgaca tccgcgtcca aagttatcgt 360  
cgtttgaatt ggatcatagc ttcaaca 387

<210> 14074

<211> 423

<212> DNA

<213> Glycine max

<400> 14074

actcatctgc tttgcttctt caciaacaaa tattcggaaa ttttcggatc atataagata 60  
tgaatgcgca atttatgtca ggaacatacc tgtggaagtg gttgagcagc cattacatca 120

agccagaaat ctcttcgcat gtacatcgat gcaattcttg aagagtctat gattagctct 180  
 cctctaccag aaacacgaga ggaaggagca atatatgcag tttgaaaccg aaaataaatc 240  
 tgaataatgt aaaatgcac aatcaatgac cggattatgg tgaggaacac ttcaagacca 300  
 gttgacatat caatgcactt gtctttctta gccctgggag taaaagaata ggggatgcac 360  
 atataacgaa agctaacaag ctgcttagaa gattatgttc catgtattta ctctatgtgc 420  
 cct 423

<210> 14075  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14075

tgtaggccta ggatcttctn tatcaatgga tttctttgct tcttgggaaga tgaatggcaa 60  
 cggaataaag aaggaagaga gagaggagac gccacttcaa ggagaagatg agtctagaat 120  
 aagctcacca ccataggagg ccatggataa gagcttggag gaagaaggag atgaatgaag 180  
 agagaggaag agaagatcat gaaatcttgt gctctaaaag agctctgaaa tctcaagttt 240  
 aattttcaaa tgatcaaagt tggaaaaatg cacacacata gcctctatct atagcctaag 300  
 tgtcacacaa aattggaggg aaatttgaat ntctattcaa atttcacttg aatgtgaaat 360  
 tcaatttgtg gagtccaatt ttggagccaa aatttcacta attatgatta gt 412

<210> 14076  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 14076

agccttgccc cttgatatat ctgaaggact catgagacac tatgaatgac taaatccttg 60  
 ggatacaggt agtggtgaca tgttttcaaa gcccgtaacta atgcatacaa ctcccttatca 120  
 taagttgaat attataaggt aggaccactt aactatacac taaaattagc aattggatgg 180  
 ccttcatgta tgaacacagc cccaatgccca acattagaag catcacactc aattttcaaaa 240  
 gatttttgaa agtttggcaa cgcaagtatg gcggcattaa atagcttttg cttaagaaca 300

tcgaaagcat tatcttgttt ctctacccat tataaaccaa catctctctt gagcatttca 360  
 ttgacagggtg ctgccaatgt gctaaaatcc gactataaca acttgctaag ccatgaaaac 420  
 tactcacctc ggacacacac tt 442

<210> 14077  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <400> 14077

tacggacact atgaaactaa gctatgctgc tatattacaa tagacctcct caacctcatc 60  
 agcaaatca accacagcag aacaattatg acctctccag caacagatac aaccttgat 120  
 ggaggatcac cctaatttta gatggtctag ccttagcaa caacaacagc agcctgctcc 180  
 ttctttccaa aatgctgctg gcctaagcag accatgcatt cctccaccaa tccaacaaca 240  
 gcaacaacct caaaaacaac caacagttga ggctcctcca caaccttccc tcgaagaact 300  
 tgtgaggcaa atgactatgc agaactgca gtttcaaca gagaccagag cctccattca 360  
 gagcttaacc aatcagatgg gacagttggc tacacaattg aatcaacaac agtcccagaa 420  
 ttctgacaag ctgccttccc aagctatcca aaatcccaa aatgtcagtg ccatttca 478

<210> 14078  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14078

ngaatacaat agaaattgct aacttaacag agctaagatt cactcaattc actcaagttt 60  
 cgtttgtcca ataaaactga caacattaca acactttgtt tgttttgtct taagttattc 120  
 tttgtgattc aacaacatta acacaaacat cttcaaactt tatatagact ttagagcttt 180  
 gatctggtga gagataaact atatatactt tgtccaatat aacttgggca tttctttgtg 240  
 aaacatttta aaactccact tgactcacat aatgcttta agaagttggg ttatcatgat 300  
 gcaatcctac cccgcaaggg cattggatag aagactccaa gtagattggg ccagagatcc 360  
 aagggaaggt cctatgggtc tcatgagcct tanggtagat ttcaagctca tgggctaagt 420  
 atgagctcgc ttatctttgt aaatat 446

<210> 14079  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14079

taactactca gatatgggaa ctgatggaat gaagattcgc ttcttttcct tcgctgtctt 60  
 ggacttatga aaatatttct ttaggaactn ttccacaact tcatcccaag tccttaagct 120  
 attacctccg aatgaatgca accacctctt ggctttctcta gatagtgaaa aatgaaaata 180  
 agctgagcct agtatcatct tctggcacac caacaattct cgcagtgttg catatttcaa 240  
 tgtatgttgc taggttcacg taaggatatt catttggcaa tccatgaaac aaattgcctt 300  
 gtattagctg aaccaaagaa tgtggatagg tgatattttg agcctgaacc tctggccgca 360  
 caatactggg gaaaaattgt ggcacacatg tactcgagta gtctttaagg gttactcttc 420  
 tggngtgctc ttcanccatt atgtcagcta cgggcactat 460

<210> 14080  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 14080

atgcatcaga caaagatgat ggcaaatacca ttccaggata tgttttcact ttacatgggtg 60  
 gtgcagtcag ttggaaaagt tccaaccaag ctacggtagc tgattctact actgaagcag 120  
 aatatatagc ggcaagcgaa gccgctaaag aagtgttttg gattaaaag ttcatatttg 180  
 aacttggcgt ggttccttca ataaaagagt cggccccatt attgtgcgac aataatgggg 240  
 ctattgctca agcaaaggaa ccaagatcac accagaagtc caaacatatt ttgcgaaggt 300  
 gtcacttgat tagagataat agaacgtggc gatgt 335

<210> 14081  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14081

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ctccttttcc tttagaatct tgcccatgaa tgtgcattnng ttctaaagat tctgcaatat 120  
catctaaaat atccttttctt ggagaaataa cattagactc atcaaaagaa acatgaatag 180  
attcttcaat agtcatagtt ctcttattat atattctata agctttacta tgcacggaat 240  
aaccaaggaa aattccttca tctgacttag catcaaactt tcctaagttt tcttttccat 300  
tatttaatac aaaacatttg caaccaaaaa catgaagggtg tgaaatgttg ggttttctac 360  
cattaaacag ctcatatgcg agtttcttta taatgggtct tattaaagcc ctgttcatga 420  
tat 423

<210> 14082  
<211> 401  
<212> DNA  
<213> Glycine max  
<400> 14082

caattacaag cgtctagata tattacggga cttaatcgta catcccagta aaaagttatt 60  
gttggttgaa tttgctcaga gcatctgttt tcaatttcga gcatctcgat atattacggg 120  
actcgatccg acatccgaga taaaagttat tgctggttga atttgcccag agcttcaatt 180  
atcaatctcg agcgtctcga aatattggag cactcaatcg gacatcttag ttaaaagtta 240  
ttgtcgttcg aatatgctac gagcttctat tttaaattac aagcgtctcg atatactacg 300  
ggacataatc cgacatctga gtaagaagtt attgccgtgc gaatttgcta cgagcttctg 360  
gtttcaatta cgagagcctc gatttactac gggacacaat c 401

<210> 14083  
<211> 480  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14083

actaagctta caccacattc tactcttcaa tcctcaacat cgacatgttg tgggtctctgc 60  
tcccgcaaga agtgaaggcc tccaaggaga acaaggcatc gttcacacag tttgggtact 120  
ttaaggttct caaaaaaggt gtttgctgt agaactagtc cgttgttgtc aaggccaagc 180



ttattatcca agatcgctaa gaagaagatc aaggaggctg gcagcgctgt tgttctcaat 240  
gcttgaatth gatggtgtcg cttttttgaa tgatttaggt tttttttatt ttgttccaat 300  
atgtctcctt ttggatgaca ttgttgttgt tcaatctatg ctatatttca tgatttaatt 360  
tacgggttta ttattttaat ttatgcattt tagaattttg cttatttatg ttgaatntaa 420  
tcacgtntaa ctatgatagc ttgatgatgt taaaatctat cgaaattgtt aaaattgtgc 480

<210> 14084  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14084

tcaagaaaaa gatggcctca gcaaattcct tatttccata aaggaattct atcaatagac 60  
ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
aggcaataga tctaaatatc tgggaagcca ttgaaatagg tccttatata cccaccacag 180  
tagaaagagt ttcaatagat ggtagttcat ctagtgaag cataaccata gaaaaaccta 240  
nagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300  
taataacatc tgccttagga atggatgaat atttcagagt gtcaaattgt aagagtgcta 360  
aggaaatgtg ggacactctt cgattaacac atgaaggaa tacagatgtt aaaagatcta 420  
cgataaatgc actaactcat gagtatgaag tatttagaat gaata 465

<210> 14085  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14085

ntgaccataa tcgcaggac aataactgtt actcagatgt acgaatgaat cccgcaatat 60  
attgagacac tcgtaattga gaacggaagc tcgtagcata ttcaaagac aataactttt 120  
aactcggatg ttcgattgag tcttgaata tatcgagacg ctcgaaattg aaaacggaag 180  
ctctgagcaa attctaacga gaataacttt tactccgatg ttcaataag tctccgtgat 240  
atattgagag gctcgtaa at gaaaacgga cctcgtagca aattctaaag acaattactt 300

tttacttgaa tgcgatggtg gcccgtaata tatcgtgaca ctctacattt taaatggaag 360  
 cttcttgcac atgctaacca caatgacatt ttactctgat g 401

<210> 14086  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14086

tctgggtgtgg acatctgact tgctttccaa tctgacattc tccacagatt ctgccctctt 60  
 ctattntcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcacgcctc 120  
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcacattct ttggagaata 180  
 gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtaacagatg tcctttgatc 240  
 tgctgccctt cattagaact tcaactctct catttgtcac caagcattct gactttgtga 300  
 agtttacatt gaatccttca tcacacaact gactgatgct gatcacggtt gcagtcagtc 360  
 ccttcaccag cagtactttg ttcagactaa gaagtcctac atgaact 407

<210> 14087  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <400> 14087

tctaacgata ataactttgt actcggatgt tctattgagt ctgcccatat atcgacacgc 60  
 tcgaaattga atgttgaagc tctaagccta ttctaatacta ctataacgct ttactcggat 120  
 gtccgatata gtgacgtcat atatctgaga ccgtcgaaat ggatagctga acctatgtgc 180  
 caatctaata gacaattact ttttactcgg atgtctgatt gagtcccatc atatatcgag 240  
 acgctcaaaa ctgaatgttg accctctgag cctattcata cgacaataac ttctttctcg 300  
 tgaatctgat tgagacctgc atatatcgag acgctcgaaa tgaatggtga acttttggcc 360  
 tatggaacga caataacttt gatctga 387

<210> 14088  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 14088

tccgaagctc tgagcagatt caaacgacaa tcactntnta ctcagatgtc tgactgagta 60  
ccgtaatatg tcgagacgct caanatngaa tactgaagct ctgagcaaat tcaaacgaca 120  
ataacttgct acttagatgt ctgattcagt cccgtaatat atcgagatgc tcgaaattga 180  
agaccgaagc tctaagcaga ttcaaacaac aataacattt tactcggatg tctgattgag 240

<210> 14089  
<211> 239  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14089

gagactatcg tgatgaattg ttatgtgata taatccctat ggaagcaggg cacattntga 60  
tgggtatatg atgtagctcc atgtggagct tgtaggcctt ggatcttctt catcaatgga 120  
atcctttgct tcttgaatat caatggaaga ggaatggaga agacagaaaag atgattggag 180  
atgccacttc aaggagaaga tgagtcaaga agaagctcac caccatagca agccattga 239

<210> 14090  
<211> 301  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14090

atctccttct tactacatca agaatcactg ggtngagtct tctctgtggc tgtcttactg 60  
gtttatgctc catcctctag attattcgat gcatacatgt ggatgggcta ataccaggaa 120  
tgttcgccag ggtccagcct atagccttct tatgcttctt gagaacaaac aacaacttct 180  
cctcttgctc atcagtaagg gaggcaaata taatcactgt aaaacttcng ctatcatcca 240  
agtaagcgta tcttaaaatt gatggcagag gcttcaattc tgggtgtggc agctggatag 300  
t 301

<210> 14091  
<211> 211  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14091

actatccctg atttcaagct tttgcanatt anggcaccc tcaagcacat atttaaagcc 60  
gacgtcagtg tccccagcaa aggcaactga cagcgtccta accaatntcc catacatccc 120  
aatgtactca aaaacacgat cagtcagcaa accagacata gcaagccgag tgagcttctt 180  
gcaattcata acaatagcac caaaaccctc a 211

<210> 14092

<211> 221

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14092

tgagatgagt agtgggttga gtctccatgt attgactgat gagtcgagta ccatatagaa 60  
tgtctgggtct tgtggacgtc aaatatcaca nactaccac cagactctng atatttgagc 120  
acccatctnn tttgcttctg caaactttga taacttcatt gtgcactcca ccggtattcc 180  
aattggcttg catacgtttg ctatgaaatg aagattcaat c 221

<210> 14093

<211> 249

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14093

agactggcct cacagtgatc agaaatgaga aggaggagct gattcctact cgggtgcaga 60  
acatgtggag agtctgcatt gactatagga ggctgaacca gggtaccaa aaggaccact 120  
ttcccctgcc attcattgac cagatgcttg aacgcctggc aggtaaatcc cactactgtt 180  
tccttaatga gttttctggg tatatgcaa ttactattgc tcctgaggat canganaaga 240  
ccacattca 249

<210> 14094

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 14094

ttctagtatt tttctgttct ttccttggag aacttatcat acgcaaaact atttatctta 60  
ctcaaccgga tgtaactcct taaacattca agttctcaag atatgataac gacatctctt 120  
ctaataatn tctntntatt attgatcaat attngttaa tntaaaataa tctttntgtt 180  
ggattttaaa ataattgtaa tcataatgaa gtttactaat aattacatat gtntgattaa 240  
ttgcaactaa tatataatat tggtagaaaa atttggtggt gagatccttc cagtatatct 300  
atctcataat ctaatatact aatttgattt aaaacgtaac ataatacttg ttcaagacag 360  
atztatatat aaataatatt taaaatatta tttaaataat ggaaactata tcatgacctt 420  
atatatatct gttcgaaatc acttaattgt 450

<210> 14095  
<211> 210  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14095

tagtgggtact tgacctgagc aaaccctttg tgggtgtactg tgatgcatcc aagatggggt 60  
tgggtggagt gcttatgcag tngggacagg tagtggccta tgcttctcaa cagctaaaga 120  
gacatganag gaattatccc atgcacgac ctgagttagc aactgtagaa tttgctctta 180  
tactntggag gcattacctn tatggatcta 210

<210> 14096  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 14096

ttatgtagac ttgaccatat tctctaattg aaccttggat cctgtcaga gacaatacta 60  
aaaggaattc catgcaacct tactactatc ttgatataca actccactag cttttccatt 120  
ctatacctca tattcactgg gataaaatga gcagacttgg tgagtcgatc tactatgacc 180  
cacacggcat catgcccacg actagtcttg ggttaactag atacaaaatc catagatatg 240  
ctctccatt ttcaatccgg aatctccaat ggcttcaatt ctcccgaagg tcgctggtgc 300

tcaaccttag cctattgaca tgtcaaacat cttgctacat atttggctac atctttttta 360  
tgcc 364

<210> 14097  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 14097

gacctttcac ccatcacata gagcttacct tcaaattgctc aagcaaaaca accccatctt 60  
gggcgggcgaa ggctctctat cagtgtccac ttgccggtat ctggatcata cacctcagca 120  
ctggagagac tgtcaccatt caccatag cctccacag cataaaccaa accattgact 180  
tcagcacaag cgaagtcata acgagacaca ttcattgtctg acaattctgct ccagctgcaa 240  
ttgcaacaga gaatggagca agtctaaagc caacttatag acagacatat aatatgagag 300  
aaattcataa gtgtcagcag gtaacagatt ataaggccat ctcttacaaa atcacaaga 360  
tgaatttatc ata 373

<210> 14098  
<211> 230  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14098

actctncttc tctnctctcc cttgagcann gataaatcat ggggtccgatg ctgctgagcc 60  
aactcgccac cggcttaagc gttctcgccg gagccggtct tgtgaaatct ggtatggacc 120  
anaagcccat ggcaggccca ttcactcgct gccncaagtg caacggaacc ggtcgagtca 180  
cgtgcncttc tgtcgcggtg tccgacggcg atgtcggtatg ctccacatgc 230

<210> 14099  
<211> 361  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 14099

tcttgagaaa acttgcttga gaagcttctt ttataaatct ttcttgagaa gctagagctt 60

agctacacat acccgtctaa tagctaagct cacctccttg agatgagaag ctagaactta 120  
gctacacacc ccttataata gctaagctca ccccatgac aaaatacatg aaaatacaaa 180  
aaaagtcctt actacaaaga ctactcanaa tgcttcgaaa tacaaggcta aaacctata 240  
ctactagaat ggccaaaata caaggcctaa atgaaggana aaacctattc taatatttac 300  
aaagataaac gggctcatac ttagcccatg ggctcaaaat ctaccctaag gctcatgaga 360  
a 361

<210> 14100  
<211> 412  
<212> DNA  
<213> Glycine max  
<400> 14100

ccagcataca cagtttcaca tgcttaagag ataaacatac tattttaaga aaggggagaaa 60  
aagtttaagg aaagcactgc agactagagt atgaataatc tacctcaata aattgagtag 120  
agtaacgggg aaggctgcgt ttgaaccaca aaagagagat tacatcacc acaccataac 180  
cattttcaat aatggtagac attggtacac cagcatagca tggctcctca ccttcggaaa 240  
aataatggaa gaaaagttaa atttagctat caaatgtgtc taggacacct cagttccatg 300  
ttacaactta taaattcgaa ggatcccaac atacctttgt catcagagat ggtggaaata 360  
atgtgagttg gagcacgttc ttgttcactc ctaatagctg tgttaaagtc ct 412

<210> 14101  
<211> 439  
<212> DNA  
<213> Glycine max  
<400> 14101

cctgcccttg cagagattaa tggtgtatct aatcatgtct ttttatcagg agatgaggtt 60  
gctctttcat gtgaaaagta tactgctttg acgtgcgag ctcgagattc agaggaacaa 120  
tccaagaaga gagttgctag tgctatgctt gaagttgacg aaacaaattt gtcgcacatg 180  
gacattttga agagggtaga agaagctaca taagaagtta aaaccaccaa gaatgccctt 240  
gatgaagctc tataaagggt agaagctgag aatagagaca cagtacctgt tgaagaggct 300  
ttaaggaatt ggcgatctga cggacaaaag agacgtgttt ctatacacia ctctaccaag 360

ttcaaaaact gtggtttgtc tcatcattgg agagatcctc aattacttga tgtgaatgga 420  
 ttgcatttgg taaatgatg 439

<210> 14102  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14102

acactataaa accccgcttc aagaaaagat ggcctcagca aactccttat ttttattggg 60  
 aattctatca atagacctcc aatctttaat ggagagggtt accattactg gaaaaccgga 120  
 atgcaaattt ttattgaggc aatagaccta aatatttggg aagccataga aatagggcct 180  
 tatataccca ccacagtaga aagaattaca atagatggca gttcatcaag tgaaagtata 240  
 actatagaaa aacctagaga tagatagtct gaagaggata gaaaacgagt acaatacaat 300  
 ttaaaagcca aaaacataat aacatctgcc ctgtgaatgg atgaatattt cagggtttca 360  
 aattgtaaga gtgctaagga aatgtgggac actcttcgat aacacatgaa ggaactacag 420  
 atgttaaaag atctangata aatgcactaa ctcatgagta tgaaatattt agaatgaatg 480  
 ca 482

<210> 14103  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14103

tccatcatca cgataccgtg ttctattggt gaggggtgtg ttgcaaagct cttanacttg 60  
 ggagctagta tcaatttaat gcctctctcc atgtgctggc gactttgaga gatagagata 120  
 atgcccacac gcatgaccct ccagttagct gaccgctcca tcacaaggcc atatggagtc 180  
 attgaagatg ctttggtgaa gggttaaccc cttatatttc cagatgattt cattgtcata 240  
 gatataaag aagatgctga cattcctctc attcttgg 278

<210> 14104  
 <211> 393



<212> DNA  
<213> Glycine max

<400> 14104

ccttcataaa agtttatatg gctcgaaaca agctctgttt ctttgttaca agaagtttaa 60  
tgagcttatg agcaactcat gattcaatac atgtgacatg gaccattggt gctatgttaa 120  
gaaatatact aatatctatg ttatccttac cgtgtatggt gatgacatgt cgattgcagg 180  
atctagtatg acagagatta atatgttgaa ccatcagttg gcagaaaact ttgaaatgaa 240  
ggatcttggt tcaactaaac aattccttgg tatgagaatt cttagaaata gatcacaagg 300  
aattttgaag ttgtctcacg aaaaaatata cacaagttgc ttgaagagtt taccttgaag 360  
attctaagac cacgaatata cttttgggat ctc 393

<210> 14105  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14105

gatggcctca gcaaattcct tatttccaga tggttaattct atcaatagac ctccaatctt 60  
taatggagag gggtaccact actggaaaac ccgaatgcaa atttttattg aggcaataga 120  
tctaaatatac tgggaagcca tagaaatagg gccttatata cccaccacag tagaaagagt 180  
ttcaatagat ggtagttcat caagtgaag cataactata gaaaaaccta tagatagatg 240  
gtctgaagag gatagaaaac gagtacaata caacttaaaa gccaaaaaca taataacatc 300  
tgccctgtga atggatgaat atttcagggt ttcaaattgt aagagtgcta acgaaatgtg 360  
ggacactctt cgattaacac atgaatgaac tacagatggt aaaagatcta ggataaatgc 420  
actaactcat gagtatgaat tatntagaat gaatg 455

<210> 14106  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 14106

tgtcttcaag ataagatgac agcttattaa attgcaacct ggcttgcaat catcaatcaa 60

gaggaggcct tagcaagaca gctataccct gattatatcc cccattagc ctcagctgga 120  
 ggtagtggat ctttggatgat caatgatagc aatgagtatg atgttgaagg gggtaggat 180  
 gagcctaact ttgacgtgga agactgcaaa catgagaatc ttcacacatc caatcttggg 240  
 atggaaagag tgagggtaac tctgccagtt caacagccct ctttttcaat aaaggagag 300  
 actgttacia atctggattt cattcggaag aggaaggttt ctaatgactt cgacatgatg 360  
 gatctgaaaa tgacacatgt gaacaccctc agagccctta c 401

<210> 14107  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14107

tttgatcttt ggaaagtaat ggaaacaact gaaccttctt tntgtaagag aatccaactg 60  
 ttgctcagat cagatttcac agtaagcaag ttgccaaaag agcaaaggct cttaccatct 120  
 tgcactcagt tgtggatgat gatgttttta tgagaatttc caacttggat acagcaaggg 180  
 agatttggga gaaacttcaa gaggagtctt ttggaaatga gaggaccaag aacatgtagg 240  
 ttctcaacct taagaggag tttgaagcct taaagatgaa tgaggctaaa aacataaaaag 300  
 atttcatgac cagactgatg aaggttgtga atcatatcaa gttgttagcg gagaaatttc 360  
 tatacagtag gatagttgag aaagtcttcg ttc 393

<210> 14108  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 14108

ccacatacaa gggagtgaat ccagtcaaga ttgtatgctc tttaacatta agagccaagt 60  
 gtaaaacatt gcatatgaaa taaaatgaag tcattctcaa ctatttctct agaattttta 120  
 caatcaccaa tcaacttaag agaaatgggtg aaaatgttga tgatctaaaa actatggaga 180  
 aaattcttag atagtttagat ccaaagttca aacatattgt cgcaatcatc gacgaaacaa 240  
 aagatttgta ggatataacc attgagaaaa ttttgggctc attacaagct tataaaaaaa 300  
 ggaaaggatc aaggaataac tactcgagac acaagttta 339

<210> 14109  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 14109

tttttgactg tattccacac aagattataa ttggattatg ctaatgaaca aatgacatat 60  
 ataagtgtta agttaacata taacaactgt tacattatat ttcattcatg ccttaagggg 120  
 atgtagttat gtacaatact ttacaactaa atcacataaa acttctgtca catagtgtaa 180  
 tcataagata acagttaatt attacacaat attttctatt tcatgtcaac aagtaccatg 240  
 aatattgtga cagggcactt tcaatagttt ggacagctcc tttggttgct acattgggca 300  
 tgtccttgac aattcccatt gccatgatag ctgacatggg tatacatggg cacaagtact 360  
 ctgcaatgta catccttgga tgca 384

<210> 14110  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 14110

aaaggggaagg atagagactt gggaatgata ctggatagtg gggaggggtg ctacgtgtgt 60  
 gtgagggaga gagagaatcc gacccaggat gattatttcc ttaaaatata gtgtttactt 120  
 attatagtga cgttcgagat attttaatga gtttaagatg aattgaattc ttccttacia 180  
 aaccaaggc caccactcat gagtaataat aatattatat tttgatgtag caacaaactt 240  
 ttcactttga ccatgtatga ttcattgctc ataagtatat attaaggctc tagctcctgt 300  
 tcttaatgtt caactcaacc aacactttta atgttgagtt aatctagtgt ttaattctga 360  
 atttatatag atcattgaat aaattgggct gtatctaate tacag 405

<210> 14111  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 14111

ctcgatatat tatgcgctg aatcggactt ccgtgtgtta tgtttgacca tttgaatttc 60

tcaacagctt tcgttggtca aggttaagct tctcgatata ttatgcacct taatcggact 120  
 gtcgtttgaa aagttatgac catctgaatt tctcgatagc ttccgttggt caatttcagg 180  
 cgtctacaca tagtatgcac ttgaatcgga cttccgtttg taaagttatg accattcgaa 240  
 tttctcatga gcattcgttg ttcaatttcc agcgtctcca tatatatgcg ccagaatcgg 300  
 acctccgtgt ga 312

<210> 14112  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14112

agtctcacga ttggacatgt tgttgcttct tttgttagca gtgggtatac gagacatctt 60  
 gcctaacaaa gtcaggtag ccataactcg cctatgcttt ntcttccatg ccatatgtag 120  
 caaaagacgt gatgctgtct agtttgatga gctggaaaat gaggctgcca ttatactgcg 180  
 ccaggtaggag atgtattttt cccctacttt ctttgacatc atgattcact tgattgtgca 240  
 tctggtcaga gaaatcaaatt attgcgggtcc tgtttatttg cggtaggatgt acccgcggtga 300  
 gcaacaaatg aagatattaa aagggtatac aaagaatcta tatcatccaa tagcatttat 360  
 tgttgagagg tacatcgag aacaagacgt tgaatcntgt tataatacat tgtagagcta 420  
 acctgttgcc ttctgag 437

<210> 14113  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14113

agcttctcga tatattatgt ggctgaatct gatttttttt tgaaaagnca tgaccattgg 60  
 aatntctcga gagcttaggt tgttcaatct ccagtgactc gatataattat gcacctgaat 120  
 cggacttacg tgtgacaagc tatgaccatt tgaatctcac gagagcattt gctgttcaat 180  
 tttgagcatt tcaatatatt atgcgcctga atcggacttc cgtgtgacaa gttatgacca 240  
 tctgagttcg ctaagagctt tcgttggttaa atatcaagct tcttgatata ttatgtgcct 300

gaatcggact tacaagtgac acgttatgac catttgaa

338

<210> 14114  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 14114

agcttctaaa ctttatacaa gaatgaagct tttgtactca tttgttggac aagcggcctc 60  
agatatctta agaagggggg ttgaattaac atatcacaaa cttttcctaa ttaaaaaatt 120  
ctattttgat ttaacccgt aaccctagat tccttaacag taaactctta agaaaatatg 180  
aaagaaaaac ttactgaaaa gaaagaataa ataataagca attaaaggag ttaagggaa 240  
gagagattgc aaactcagat ttatactgat tcggtcacac cttgtgcct acgtccagtc 300  
cccaagcaac ctgcttgaga gttccactat cttgtaaaag cctattacaa gatctgaatc 360  
acacaaggac aacccttcct ttgtgttcag atttctttac aacaagagac cctcgggtctc 420  
ttaatccct 429

<210> 14115  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14115

cctgccgcat gcaagcttga atcggacctc agagtgaaaa gtttgcctt ttcaantacn 60  
cgagagctng cggggggcaa tgtcgagcat ctcgacatgt tatgcgctcg aatcggacat 120  
ccgtgtgaaa agttatgacc atttgagttt ctcgagagct cccgtgggtc aatttcgagc 180  
atctcgttat attatgcgcc caaaactgac cttcgtgtga aaagttatga ccatttgaat 240  
ttctcgagag catccgatgt ttaatatcga gcgtctcaat atattgtacg cctgaatcgc 300  
agctcagtgt gaaaagttat gaccatttgg atttttcgaa agcttccttg gttcaattcc 360  
gagcatctcg acatattatg tgcccgaatc tgaccttcga gagaaaagtt atgaccattt 420  
gaatttctcg agag 434

<210> 14116

<211> 423  
 <212> DNA  
 <213> Glycine max

<400> 14116

agcttctggt ttcaattacg agagtctcgt tattctacgg gacacaatcg gacatcggag 60  
 taaaaagtta ttgtcggttg aatttgctcg gagcttctgt tttcaatgtc gagcttcacg 120  
 atatactacg ggacacaatc ggacatccga gatataagat tttttttttg catttgctca 180  
 gagcctatgt tttcaatttc cagcatcttg atattttacc gccgacaatc attcatacca 240  
 ggaaaaagtt gttggcgcta gaatttgcaa agagcttatg ttttcaattt caagagactc 300  
 aatatattac ggggcacaat cggacattcg agaaaaagt tatgggcgct agtatttgcg 360  
 accagcttcc gttttcaaat tcgagcatgt tgatatatta cgggacttaa tcggacatcc 420  
 gag 423

<210> 14117  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14117

agcttgtagg gttaaagtct cacgattgnc tcttgctcat gcaacaattg ttagccgggg 60  
 ctatactaga catcttgcca aacaaagtca gggtcacgat aactcgccag tgctttttct 120  
 tccatgctat atgtagcaaa gtgattgatc cagtaatgtt tgatgagttg gaaaatgagg 180  
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240  
 ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggctctgtt tatctatggg 300  
 ggatgtaccc gggtgagcaa tacataaaga tcttaaaagg gtatacaaag aatctatata 360  
 gtccagaagc atctactggt gagaggtaca ttgcagaaga agccattgaa ttttgttcag 420  
 aatactt 427

<210> 14118  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 14118

agcttgaaat tgaacaacgg aagctctctt tattatgagt ggtcataaat ttccacacag 60  
atgtccgatt cggggaaata atatatcgag acgcacgaaa ttgaacaacg gaagctctcg 120  
agaaatttga atggtcataa catttcactc ggatgttcga tccggggaca taatttatcg 180  
agacgctcga aattgaacaa ccgaagctct cgacaaatta gaatggtcgt aacttttcac 240  
gcgaatgttc gattcgggga cataactcat ctagacgctc gaaattgaac aacggaagct 300  
ctcgagaaat ttgaatggtc ataagttttc acacggatgt ccgattcggg aacataatat 360  
atcaagacac tcgaaattga acaacggaag ctctcgagaa aatcgaatgg tcata 415

<210> 14119  
<211> 409  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14119

agctntcagc aggggaagcta atgtgttttt tattctattc tacacaggat tgggtgctgca 60  
tactgggtac ccaccaatca tacttccact gttgccacag gtttgggtaa atcttctgta 120  
tgctgttgga accaaatcct aatttaattt cggaactat attgttgatc aaactgctaa 180  
ccattcataa tcttttgctg acaaattacc cattgccttc cctactgtat tgcggggcat 240  
tatgatgact caacactccc aatatgttaa actacactga ctctgtgatg aagaaagaat 300  
ctgctctata cctgcataac aaattgtttg aggggacaca tgtcccatac attgtctcga 360  
catcaaggat agctgcttta cgcgttgtgt ccaaagatgc cttgattgc 409

<210> 14120  
<211> 425  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14120

agcttctact tcttatctca catacaactt aggtctgtat cacgcgccgc aggtaagaat 60  
agncacacaa gctttatcat ttaaaattat atgggtgtgct cttctatata tgtaaatcta 120  
atgatttttt ctgggagggg gagattgcct tggatgatt gcagatacaa gcccatgata 180  
ttcatgcctg taatatagta tggctacgtg aaaaatgatga agtgccctgt gaccttgttt 240

tgattgtcac ctctgatcct caaggagttt gctatataga ggtaattatg tcgtgaaaca 300  
 tgctaaaact ggtcttctct ctctgcagca ttgcaggaa attggaatgt cattccacta 360  
 ttcttctctt tttctctcat ttggggcaga catnttatta tatacatttt aaggacctta 420  
 tgata 425

<210> 14121  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14121

agcnttgagg aggctaaaat caatgtatgt ttctgtgatt gtgaaatctc taagagtttg 60  
 aggtcagatg gatttaattt gaaattcatc aaagcctctt ggagcttact gaaggaagat 120  
 gtcaaaagat ttcttaggaa gtttcatgtt aatggtgtgt tccctagagg tcgcaatgca 180  
 tcattcatca ccttgatacc taagattgag gatccacaaa atctggggga ttttaggtcc 240  
 atttactgg taggatgtat gtataagatc cttgctaaaa tccttgcattg aagactaaaa 300  
 ggtgctttgg tagtgtgatt gacaaaaggc aaatcgctt cttggaaggg agaaacttac 360  
 ttcttggagt cttggtggca aatgaactag ttgataaggc aagaagaaag gaaaagaagt 420  
 gc 422

<210> 14122  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14122

ctgcagcttc tgtggaaagc atgttcggtt cctagnttat gtgatgatta cacaatactt 60  
 caagcccttt tcagccttga catggtgatt ctttcttag ccacaatttg tggacttggt 120  
 ggtaccctca ctgtgtcaaa taacttaagc cagattggca catctttagg gtattcggca 180  
 catagtataa ccacatttgt gtcccttatg gccatttga tctatatggg taagattgta 240  
 caggagtggt tctcaaaaat tatcatagca aaattcaaag tccctaggcc tatgatattc 300  
 acattaattc ttgtattacc ttgtgctggt taccttctaa ttgctttcga tgtcccaa 360



ggctctctatg cggcctcaat tataattggg ttctgctttg gggctaactg gccactacta 420  
 tttacc 426

<210> 14123  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14123

tcttctttct ccttattgag ttctattgag tgtgagtgat agcgtgtacg tgtgtgctgc 60  
 acttccattg tttagatgag tatttgtctt ccataattca ttatgggaag tgggtttctt 120  
 aaataagatt tatatattct gagttataat ttctgggtgt aatattataa aaatattagg 180  
 ttagttagta ttaataggta ttgtaaactt aggttaatta cgattaatat atattataag 240  
 gttagggttag tcactatgct gtttttaatt tttatgtatt aatagatact tgaaggtag 300  
 ttagttagtt cggttcgttg atatatcctt agatatatat atgtgatata atattattag 360  
 cntagaaat attaggcaca tggtatatac 390

<210> 14124  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14124

gctgtgcgtc actatccact attgaagcat aatacattgc agttggatgt tgttgtgctc 60  
 aaagtcttta gatgaagcaa caacatgaag actttgggtt aattgttgat catattccac 120  
 tacaatgtga taacactagt gctataaatc tgtctaagaa tccaattatg cattcaagaa 180  
 ccaagcatat aaaaattagg catcattttt ctaagagatc atgtatctaa tgggtgattgt 240  
 tgcattgaat ntgtggatag tgatagggtt ttctctatta gaaatgagct angaatccta 300  
 gattagttta acattgaatg atgttgtgct atgggtgtgt catcttgata tgtgctctnt 360  
 gaatctgtca attc 374

<210> 14125  
 <211> 401

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14125

cacaagtaag cttccatcat cctcacacat ctccttcac c aatttgttgn tcaaactggt 60  
 ggcattatcg gtgattatct ttctgggcaa cccatatctg caaattatct ccttcttgat 120  
 gaattttacc accacattcc tagtcacatt agcatatgag gtagcttcca cccattttgt 180  
 gaagcaatca atggcgacta tgatgaaacg atgcccattc aaaccttggg ttcgatagcc 240  
 ccaatcacgt ctatgccccca catcaagaac gaccatgggtg ctgacaagac attcaatggc 300  
 gcagggtggng cattaacatt atctacaaag gtttggcgct tgggtggcatt tctgacgtga 360  
 acacaacaat cactctncat ggtgatctag taatacccg c 401

<210> 14126  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14126

gcttatecctt gngctatcaa tgtgtgtttt attgggntat gcctttgaca aaatgggata 60  
 gaaattatat catccttcaa ctcacgtttt ttaggtttct attgatgtca cctttcatga 120  
 agatgagtca tacttcattc atcctcagct tcaaaggat aggattccag aagcctactc 180  
 cttctctgaa tccttctttc cttctaattg cattcctcta tctttgcttc atgagcctgt 240  
 accaatgtgc atgtcaatcg aggctaccct ttctaattgt catgtgatct agcacctctt 300  
 cttggtgtac cacatgttaa atagataaag tgaacctacc taatgccccg acaccatagg 360  
 tgggtgatca aaatgagagt ggacctatat tgcgatgatt actatgat 408

<210> 14127  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <400> 14127

tgttcctcta actccccctg caacattgca atcataccat tctcaccgct caaagtgaac 60  
 actctctaca gctgctctac tccgaataac tctgctgggt gccatgtata caactggaga 120

gagaagcttt gtgaaatcaa taccctgtgt ctgctggaag cctttccac ctgtccatcc 180  
atgtctctct cttctacagc cagacttgta ctgtagacta tacaccacc gattctgtta 240  
cgctttcttt ccttctgcga tgtagttaa cgaccacgat ttgttctct gaatggatgt 300  
cgtctcatat ttcacgcta gctaccact cataaagtca tccccctgtg tagactcact 360  
gaaaca 366

<210> 14128  
<211> 290  
<212> DNA  
<213> Glycine max

<400> 14128

gttcatgtgt ttatttgttt attgtctaag tcgtaggggt tagggtttaa gccttatggt 60  
ttagggttta gtgtcgaagc tgtatgggtt aggttttagg gcttatgggt tattgtttta 120  
ggtttaaacc ttacggttta gaatttgggg tttaatctct aagccttatg gtttgggttt 180  
tacggtttat gagttaagcc ttatggttta tggttacgg ctttgggtta tggttgaata 240  
aaattactcc cacttctatg catttatgaa ataaaactac attataattt 290

<210> 14129  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 14129

gtcttctct atagcccat gcaagaatgc aattataaca ttccactgct cacaggggaag 60  
attctctaca gctgctgtac tcacaataac tctgatggct gtcactgtga caactggaga 120  
gaagatcttc gagaaaacac cttctcggtt ctgctgagac actgtcacca caaggctctc 180  
cttgtgtctt cttctaccgt cagattctga ctttagccta tagaccacc tattgtcgga 240  
cgctttcttt cttctggag agttaataa agaccacgtt ttattcttct gaagggatgt 300  
cctctcatct ttcacgcta gctccactt a 331

<210> 14130  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 14130

taaccagct ggccttgaat tagaaaattg ttctgtcgc aagggtttgt gggttgct 60

cctctgtga ccaccatata gacctttgcc cttccatgca gcaacctgga gtaattgagc 120

agcctggagc ttatgtgca aacatttaca atagacctcc tcaacctcag cagcaaaatc 180

aaccacaaca gaacaattat gacctctcca gcaacagata caacctgga tggaggaatc 240

accctaattc cagttggtct agccctcaac aacaacaaca gcagcctgct ccttccttcc 300

aaaatgctgc tggccaagc agaccatata ttctccacc aatccaacaa cagcaatagc 360

cccagaaac 369

<210> 14131

<211> 348

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14131

agcttgagat aaacaaacga cttatatctt gtactcggat gtcnganaga gtcccgaat 60

atatcgagac gctcgaaatt gaataccgaa gcgcttagca nattcaaacg acaaaaactt 120

tttactcgga tgtctgattg agtcccgtaa tatatcgaaa agctcgaatg tgaatgtaga 180

agctctgagc aaattcaaac aacaataact ttttactctg atgtctgatt gagtcccgtg 240

atatatcgag acgctcgaaa tggaataaccg aagctcggag caaattcaaa caataataac 300

tttttactcg gatgtccgat agagtcccgt atatatcgta acgcttga 348

<210> 14132

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14132

tgcagcttgt acaaatatcg tcaactcgag tgctctttat ttgtgagcat gtctgctagt 60

tggtcttttg agctgacaaa atcagtggtg atttctgctg aaagtacctt ctctcgaca 120

aagtgacaat caatctctgt gttttgtccg ctcatgaaag accgggtttg aagcaatgtg 180

gatagcagct tcattgtcac atattagtcc agcatcctga acatctccaa attntatttg 240

ttggagaagt tgcctaagcc atgtgatctc acatgccgct gctgccatgg catgatactt 300  
 ctgtgtgggt tggtagaggt gctgtatggt tcgtttgtgt gatctacagc tagttggggt 360  
 gcagtattgc aacatgcagc aggggaagct ataatctggt ctggtgtggt gcagcttaan 420  
 aaaaagtgc tgtgngtggt attatacatt gtgctgcaac tt 462

<210> 14133  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14133

gacaaacagc tgtatgctat ggtaagagct ctgccaacat ggcaacacta tttatggcca 60  
 acggaattca taattcattt cgaacaccaa agtttgaagt ttctaaaatc tcaaggtaag 120  
 cttcaaaaga gacatgccaa gtggctggaa ttcatagaga tgtttcctta tgtgatcaac 180  
 gacaagaatg gtaaagaaaa cataatgggt gatgctttgg ctagaaggaa tgctntgctt 240  
 acttctttgc anactaaatt gcttggatgt gagtatagaa atgacttgta tgctaataa 300  
 tctgactntg acaaaggatg ggattcttgt ctacacatgt ttgtgggaat attatgacac 360  
 aatg 364

<210> 14134  
 <211> 127  
 <212> DNA  
 <213> Glycine max

<400> 14134

ttcattcgag agtatactct ctcatcatac tcatgagatt tctagtgcct gctctgatac 60  
 ccacagagat tctgattctg aggacagacg tcggaccgga tgtctcgtca tcatgcttca 120  
 caacatg 127

<210> 14135  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14135

atgcgaacca agaagaatga aatgaacaga agacgttggtt gggattatcg nctacgggcc 60  
 ttaaacagag aaacgaatca aggacctaaa aagggattat taaagagggtt aaaanaacgg 120  
 aaattgttaa acaagaataa cataataaca gtattttact tgagtcataa cataatntct 180  
 tttatattta ttatttgata atcgatacac attataagta tttagttnta ctatttatat 240  
 tgttttactag atataaaaact tagacggaat atacgcgtta accgtaaaaa tcataaaaat 300  
 gtctttcgat agataattat attntcatgc tagaatttat tgacaaatac gaattttttt 360  
 tatcatgaat cactaaaatt atattttgat tgtaagtttt ttttatcaaa tatataaatt 420  
 tcaacttaag ataattgtta tatgttgaca aaatagtatt ataattcgat atatatctat 480  
 ataaagat 488

<210> 14136  
 <211> 463  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14136

agctngaagc gagagttaaa tgagatctct tnttgccaa tatggaactc cttcctaaga 60  
 atgctagagt catgaaacct cttcactttc tccttgtaaa tcttgagggtt ctcataagcc 120  
 tctaagcgga taccctcaag ttcttgaaat cgaagcttcc tttccatact tgcttcatca 180  
 aattccatgt tacaactctt caccgccccaa taagcatggt gctcaatctc caccagaagg 240  
 tggcatgcct taatgaaaac caccttatag ggagacatcc ctaaagggtgt ttggtaagcg 300  
 gttctgtgag cccatagagc natttcaagt agcttgctcc aatccttctt attgagctac 360  
 attactttct acaacacttg ctngatctct ctatttaaaa cttcacttg cccaatagtt 420  
 gggggatgat aagttgtagc aactctatgc ataaccatat tct 463

<210> 14137  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <400> 14137

ctatccaata ctcaagcttg acaagaaagc agaaccgga atatctgtgg gttatagtct 60

tacttcatag gcctactaaa tctacctacc acagagaaac atagtaatcg tcagcaagga 120  
 tgtcaaatat ttggagtcag atagttggga ctggaaaaat gataagaggt ctgagtttca 180  
 tgaggagaat gatgatgttg atgaacaacc catcatatga accagatcac ttccagacat 240  
 ctatcatagg tgtaatgttg ttgtaatgga gcctgagggga tatgaagaag ctacagctga 300  
 tcagaaatgg agaaatgcaa tgaaagagga gcttataatg attgataaaa ataaaacatg 360  
 ggagctggtg gacagacctt accacaagat agcgattggt gtcaagtggg tttat 415

<210> 14138  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14138

gcttcaacat cagaccactt ncattgtgct tgaactactt cacatggact tgatggggcc 60  
 tatgcaagtt gatagcctag gaggaaagat gtatgcctat gttgctgtgg atgatttctc 120  
 cagatttacc tgggtcaact ttatcagaga aaaatcagac acctttgaag tattcaagga 180  
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aatagaatca ggagtgacca 240  
 tggcagagag tttgaaaaca gcaggtttac tgaattctgc acatctgaag gcatcactca 300  
 tgagttctct gcagccatta caccacaaca 330

<210> 14139  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14139

cagaanataa tttccaagag tcacatctgt tgccatcaaa ggtctattta tatgtgacat 60  
 agaacacgaa tttgcgaaga gtttttgaga acaaaaaggt cttatcctct caaaaaaaga 120  
 aaaattatct tatcctctta aaaattcctt ggccaatata cttgcaattc aataagggaa 180  
 ttatttgagt gctccattgt tcaatctatc tctttcaaga gagatttctt cttctcttca 240  
 tcttatttct aaaaagggat taagagaccg agggctctctt gttgtaaagc aatctgtaca 300  
 caaaggaagg gttggctcct gtgtggtcag aactngatgc aatactaccc cgcaagggca 360

ttg gat agaa gactccaaga agattgagcc agagatgcaa g

401

<210> 14140  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14140

actcagctaa tattgtaggc ttcttccttg tgtcaacttg tcaaattgtg ccctcttact 60  
aacaaagagg ataggcttat atgcataagt gtccctcacc tgagaagtgc ttcacaggca 120  
aatgctcttc cagtcattgg agtcaatctt gtagaaagca taatactcct cctttgtgat 180  
ctcctaaggc tctgtcatcc aaatggcctt atccttcttt ttgtaagtgg gaaaacaaag 240  
tcctctatag gtttccccct cacgaaggat ttttcctttc acagcaaact aatgttcaat 300  
ntacgaatgg taaccggcag atctgaatga atttccttac ctttaagtctt cctaattttt 360  
tgtcactaac taactctaaa actaatattc taattatccc taattaactc ccccttccta 420  
cggtcctaat gg 432

<210> 14141  
<211> 339  
<212> DNA  
<213> Glycine max

<400> 14141

gctatgcaaa atcatcaaag gatagcagct gctgactcag attctggaac aaatgttgct 60  
gggaatctat caaacaaact aaaatagcag aaaaaaaagg attcggccct gctatcagat 120  
gatgttgaga tgatgagatc ctcatcaccg gagtcaagtt cccccaaaaa atgcatgcat 180  
tgtgaggtga caaaaacccc acaatggaga gagggacctg tgggtcccaa aacactgtgc 240  
aatgcttggt gtgttcgata cgggtctggc cgctcttttc tgaataccga ccggcagcta 300  
gcccgacttt tgtagcatca ctgcactcat actgtcaca 339

<210> 14142  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 14142

ttgattcaac cgagcattaa ataacatgat caatgtgcag atgcaaatat aactaaaagt 60

atagggttat attttacctc gaggagaaca tctgtgact catccaagac aatttcatct 120

aaattattac caactactat ttccacatca ccatcattct gtttccaagt taccatacac 180

gttaagcatg aaaaactaaa ttaatatgac ataattgacg gtgggaaaat taaataacat 240

acactttcag gaactggatc tgacttgtaa aaagggtgta gctcgtcttc aacgaaatct 300

tgcccaaagt cctgtggaaa aatgaagatt agaacattac tcaaaatatt gctntcacac 360

ctctattaag tgatagataa accatccatg cacattctct atcattaaca tgttagcaat 420

agtaacagaa cc 432

<210> 14143

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14143

tcggatgtct gattgagtcc cgaaatatat cgagacgctc gaaattgaat accgaagcgc 60

taagcaaatt caaacgacaa taactttnta ctccgatgtc tgattgagtc ccgtaatata 120

tcgaaaagct cgaatgtgaa tgtagaagct ctgagcaaat tcaaacaaca ataacttttt 180

actccgatgt ctgattgagt cccgtaatat atcgagacgc tcgaaatgga ataccgaagc 240

tctgagcaaa ttcaaacaat aataactttt tactccgatg tccgatggag tcccgtaata 300

tatccgaacg ctcgaaattg aatgctgaag ctctgagcaa attcaaacga caataactct 360

ctactccgat gtctgattga gtcccgtaat aaatcgagaa gtcgaaa 408

<210> 14144

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14144

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catttgcctc aaaaccatat gatgtaatga cttgatggaa cttgtaatac cattgacggg 120

aagcttgttt caaaccatag atggatttat ttagtttaca aaccatagac tttgagtcac 180  
 ctgatacaaa gttntctggt tgcacatcat aaattagttc ttcaatgtca ccatttagaa 240  
 atgtagtctt aacattcatt tgatgtagct ctaaatacata atgagctacc agtgccatta 300  
 ttggtctaaa agaataccttt gaagatacta gagaanaggt ttctttatac tcaatgcctt 360  
 ccttttaggta aaatctttat ggactagatg agccttatat ctctcgac 408

<210> 14145  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14145

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 tntgttgaaa gaccataagg agcaatgggg aagaattgga tgttcaatta tgtctgatgc 120  
 atggacagac agaaaacaga gatgtatcat taacttcttg atgaattagc cgttttgatt 180  
 attccttttc tatacaacaa tagatgcac caattttgtg aaatctggag aaaatatatt 240  
 tgagttgttg gactctattg tggaagagaa tgaagaagaa aagggtgtcc aagttataac 300  
 atacaatgga agcaactatg ttttggcagg taattactca acaaaagatg cacatttata 360  
 ttggactcct tgtgcagcca ctgcatagat ttgatgttgg aagacattg 409

<210> 14146  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14146

cagcttacgc cttaatcaat tataaaaaat ttttataatc atgtttcaca attgaaataa 60  
 tcagggttac ttaagtgatt attttataat ttttaataga taaatgacta aattataagt 120  
 taaaaataaa gttaaagaac caaatgagta atttaataca ataattgtga tgtttgaaaa 180  
 cactcacaag acttatatat tntaattttg ataattcatt aagatataat ggataatatt 240  
 aattcttctc acttttgcac taaaacattc tcaactaaata tttcatcttc tctctttcac 300  
 ataaaaagca aaaactcgct agatagagag agaggactta aatttgngtt tgataaaatc 360

tactgtgaag cttattaaaa tatctataag aatcataaat cattctaaca agcttaacaa 420  
aatacatact cattattact ataatc 446

<210> 14147  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 14147

acggagtttt ccgactatgt tcttgtgtgg tggaacaagc tacaaaagga gagagcaaga 60  
aatgaagagg caatggttga tacatggacg gagatgaaaa agatcatgag gaagcgggtat 120  
gtgccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac ccaaggcaac 180  
aaggggggttg aggagtatgt caaggaaatg gatgtgctca tgattcaagc aaatattgaa 240  
gaagatgagg aggtaactat ggctcgatgt cttaatgggt tgactgatga tatccgtgat 300  
attgttgagc tgcacgagtt tgttgaaatg gatgaattgc ttcacaaagc aatccaagtg 360  
gagcaacaat taaaa 375

<210> 14148  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14148

gcttctgttc tgaatctcga gcttctcata tactactgga aacaancgga catccgagta 60  
aaaatgtttt gttgtctgaa ttntctaaga gggtatgatt tcaatcttga gcgtctcgat 120  
atattacgag actcaatcaa gcatccgagc aaaaagttat tgctcgctaaa tgtttcttac 180  
agcttctatt tccgattatg agcgtctcga tatattacga gattcattcg gacatccgag 240  
taaaaagtta ttgtcgcttg attttgctca aagcttctgt tatgaatatc gagtgtctcg 300  
atatactacg ggacacaatc ggacatccga gtaaaaagtt attgacatgt gaattgctca 360  
tatcattcgg tgtcaattac gagcgtctag atatatt 397

<210> 14149  
<211> 160  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 14149

atcagagaga gaacagacac ctttgaagta ttcaaagagt ngagtctaag acttcaaaga 60  
 gaacaagact gtgtcatcaa gagaattatg agtgaccatg gcagagagtt tgaaaaccag 120  
 caagttactt gaatctgcac atctgaaggc atcactcatg 160

<210> 14150  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14150

tgtaaccac catcttcgca tagtagaaca ccgattacgt gtccactatc attggtatca 60  
 tctccctctc catcattggg ggcactactt gagctgccag atccctccac ctttgggcgt 120  
 attctttgaa agattcatgc tccctcttac acatattttg caggtacatt caatcaggag 180  
 ccatatcaga attggactaa tgctgcctaa taaaggcaac cattatgtct ttccagggaac 240  
 gaaccggga agactccaga ttggtgtacc aggtggtggc taccacagta agactttcct 300  
 agaagaaatg cataaancaa ttttcatctt ttgcatatgc tctcattttc ttgcagtaca 360  
 tcttcaagtg attcttgggg caagtagtcc ccttgtactt atagaagtct ggcaccttaa 420  
 acttcggagg aatgaccatg tcgagcacta agcacaacct tgccatgtca aca 473

<210> 14151  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 14151

tgcatctcct ttagtaggga atctatcctt cctaagatgt gagccaacct aatcccccta 60  
 attaagaact agctcatttc ttcctctatt gctcttagtt gaatacgctt ttgtttgggt 120  
 ctctatttag gtcttaacct tctcatgcaa cttttttaca aactctgacc tagattcgtc 180  
 ttctttatgt ataaaagaag tgtcaagtgg gagggaaatga ggtctaagggt tgtagggga 240  
 ttgaacccat atacaacctc aaaaggggat tgcttagtgg ttctatgaac cccccctgtt 300  
 gtatgcaa at tctacatgag gaagatactc atcccaagac ttatcggtgc ctctcagaag 360

atcccataat aggggtggata aggacctatt cactacctct gtttgcccat cagtttatgg 420

ataacaagtg g 431

<210> 14152  
<211> 477  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14152

tacggacact atgaaactca gcgttgctac ccaaggaacc atcaggaaat tacttgtgaa 60  
tgagagccat gaggggtgggc tcatgggccca ctttgggata gacaagaccc ttgtcttact 120  
caaagaaaag ttntattggc cccatatgaa gaaagatgtc cataagcatt gcactaggtg 180  
tgtggcttgt ttacaagcca agtctagggt gatgcctcat gggctataca cacccttacc 240  
cattccatct gcaccttggg tagacattag tatggacttt gtccttgggc tccctagaag 300  
caaagaggt gtagactcta tctttgtagt ggtggatagg tttagcaaga tggcacactn 360  
tataccatgc cacaaggtgg atgatgcttc ccatatctca naactctntt ttagtggaag 420  
tgtgagactc catggtttgc ctacgaccat tgtgtcagat agagatgcta agttcct 477

<210> 14153  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 14153

gctagaacac cgcctcatat gctgagaaca ccacttatta tggaccatca tgttggatca 60  
gcaccagttg ttacagcctc gccctgtgaa aggcaaaatt cttactttgg agggccccct 120  
gacgcttctg gttttcgctt gggttctcta ggaagtggag gttttcatgg ttcttgcaa 180  
atgcatccac tggatatacc ttctcacaac atgttatctc atgttgtggg gaatgtgtcc 240  
gaactgacaa ccaatgctgg gcataactct cctaaacaac tatctcatag tttcccatag 300  
agacatgcta tgtcttctat gactaaactt gatgctctca aagaacgctt tataaacctt 360  
ctaactccta aaatgaatct agcaccaaca atgcttataa aaaactgtat gaac 414

<210> 14154

<211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14154

catacaatac tcaagctggg acttncatg ttctgggaac ctctgcgtac ttaggtgtat 60  
 ttttaacccaa tcacctgggt caagcatgac tatctttctg cttgagttgg cttgccttgc 120  
 atatctcaca gttttctttt caattcgagc cttcacttgc tcatgcagct tcttcacata 180  
 ctcagctgta tcctgtgcgt ccttatgctt aagcatatca atgttatgca taggccacaa 240  
 atcgagacga ggcaaatgat ataatccgta cactacttta aatgggtgaac aattagttgt 300  
 gctatggaca ggcctattat aagcaaactc aacatgaggc aaacatcggt nccaagatgt 360  
 aagaattttc tttaaaacag tcctaaacag tggacctaaa atcctatgac taccacaggt 420  
 tgaccat 427

<210> 14155  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14155

ntgagaatat gggtgcagcc attgggtcaat atggggcata tttgcccatt catagctatc 60  
 atgacattag agttccactc ctgaagaagg aagttgaata tactgaaaat ttgatgaaag 120  
 gctatagggg gcaatgggtc aagtatgttt gtactattat gtccgatgca tggactgatc 180  
 ggaaacaaag atgcatcatt aatTTTTTga ttaactctca agctggtacc atgtttntga 240  
 agtctgttga tggctctgat tttgtaaaga cagggtgaaaa tctttttgag ttgcttgatg 300  
 ccattgtgga ggaagttgga gaagcgaatg ttgttcaagt tgtaaccaat aatgagagca 360  
 actatgtttt agcggngaaa gttgtggagg agaaaatgaa acatatttat tggactcctt 420  
 gtgcagctca ttgtattgat ttgat 445

<210> 14156  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 14156

ngaatagann attttgggct gaggcagcca gttcaacatt ctatctcatg aatcactcac 60  
catccaatgc cataggcttc aaaacccta ttaaggtagt gcctaacaaa ccaactaaat 120  
actcaatggt gaagggtgtt ggatctttgg catactatca cgtaagtga ggtaagctag 180  
agtatagagc caagaaggga ttctttataa gctttgttga tgaagtcaaa ggattctaag 240  
tctggctctc atttgaaata aaagtcattc taagtagaga tttcatcttt aatgaattct 300  
ctatgatgca ttctaaatct gatgaagatt tgggaaagcc tgaggatgtc actaagcaag 360  
tgagagttcg gatctcaata atcaggaaca ttagnatca gaagcaattt aaagcacctg 420  
atgagactga tcagaatctt caaatccacc attaacatca tagtgaacac caat 474

<210> 14157  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14157

tttgttactc aatttcgagc gtctcgttat atatgttctt tattcggaca tgcgtgtgaa 60  
atgttatgat catttgaatn tctcgagggc ttctattgtt caatttcacg cgtctcgata 120  
tattatacgc ctgaatcgca catccgtgtg aaaagttatg accttttcga tttctcgaga 180  
gcttccgttg ttcaatttcg agcgtctaga tatattatgc gccagaatcg gacatccgtg 240  
tgaaaagtta tgaccatgtg gatttatcaa gagcttctgt tgtaaattt cgagcgtgtc 300  
catatattat gcgcttgaat cggacatccg agtgaaaagt tatgaccatt tggatttctc 360  
aagagcattc gttgatcaat ttcgagcatc tctatatatt atgcacctg 409

<210> 14158  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 14158

tcaagaatca agatcaatat tcaagattca aggttcaaga ttctcaagag aagacttaat 60  
caagataagt atgaaaagga tttttcaaaa actgagtagc aaatggattt tttacaaaac 120

atgtttacca aagagttttt actctctggt aatcgattac cagtagcaaa atgtttttga 180  
 aaaagttttc aaattgaatt tgcaacattc caattaattt caaaaagctg taatcgatta 240  
 caatgttttg gtaatcaatt accagtgcac ttgaatgttg aaattcaaatt ttaaattgtga 300  
 agagtcacat cgtttcacat aaaagccttg tgtaatcgat tacactaatt tggtaatcaa 360  
 ttaccagtga ctatttctga ataaatcaaa agatgtaact cttcaaatag tttttttact 420  
 ttttcaaatt 429

<210> 14159  
 <211> 229  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14159

gacaacaacc tcagcaccag gtttgacaat atctgtcaat gagatcatga gactccttcc 60  
 gtccaagggtg gtgagatcca acgttntacc agtaagggcc tcaagaagggt ttatctcttn 120  
 ggtgatcacc aaatcattac catcccttct ataaagagca tgcggcttct catctatcac 180  
 anaaatgaga tctgctggga tgacaccagg ctacagggtta cttttctct 229

<210> 14160  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <400> 14160

tcactcgggtt gttcgtattc aggagtatca catattgaga cgctcgaaat tgaacaacgg 60  
 aagctctcga gaaattgaaa tggtcataac ttttcactcg gatgtccgat tcaggcgcac 120  
 cacatatcga gacgctcgaa attgaacaac gggagctctc gagaaattca aatggtcata 180  
 acttttcaca cggagggtcaa attcaggcgc atcacatatc gagacgctcg aaattgaaca 240  
 acggaagctc tgaagaaatt aaaatgctga taacttttca ctccgatgtc caattcaggc 300  
 gcatcacata tcgtgacgct cgaaattgaa caacggaagc tctccaaaaa ttcaaatggc 360  
 cataactttt cacac 375

<210> 14161  
 <211> 421



<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14161  
  
 tcagaacttc tgtagggttt cagggctttc catcagtctc ttattaatct gccatatact 60  
 cagccggtat taggcctcat gagctttctc atattcagca gcttattgga tttagcttgg 120  
 gtgacttccc tttcagatac ttaggtgttc cccttttatac atctagatta aatgtatgtc 180  
 attatgctcc cttgctttcc aagattactg tcttgattca gggatggagc aaaaagtctt 240  
 tatcttatgg aggtaagtta gagttgatca gagcgggttat tcaaggaatt gtgaatttct 300  
 ggatggggat ttttcctttg ccgcaatctg ttctggactg gatcaacgct tcgtgccgta 360  
 attntctgtg gggcaaagcg gatattggca aacacaagcc cttggttgct tggtcagtag 420  
 t 421

<210> 14162  
 <211> 463  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14162  
  
 ttcatgcagg tggaccttct tctagttatt atgacttacc acaatcgtct ttcctcttc 60  
 cattcccacc tagagcaatt ccaaacaaaa aaatggaaga agcggaaaag gagatcttgg 120  
 agaccttcag gaaagtagag gtgaacatac ctctgctaga tgccatcaag cagattccaa 180  
 gatatgccat gtttctaaag gagctgtgca ccacaaaag gaagctcana ggcaataaaa 240  
 gaattagcat gggtagaaat gtgtcagcat tgataggtaa atctgttcct cacattcctg 300  
 agaaatgtaa ggaccangt actttctgta taccttgcat tattgggaac aataaatttg 360  
 agaatgccat gctagatcta ngagcatcag ttagtgcacat gcctctgtct attttcaatt 420  
 tnttatctca tagaccctng taatctacag atgtggtgat tca 463

<210> 14163  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
  
 <400> 14163

cttgatgcaa cagttggaga ggtaaatgga agaaggatat gttgcgctcc atgagagggtt 60  
 ggatcaaattg gagaatagag atcataatga agaagaaagg aggagaagag ggaatgatga 120  
 tgttcctaga caaaaccgaa ttgatggtat taaactcaac attcctctct ttaaaggaaa 180  
 gaatgatcca gaggcctact tggaatggga gatgaaaata gagcatgttt tctcatgcaa 240  
 aaactatgag gaggacaaaa aggtcacgct tgccgccacg gagttttccg actatgctct 300  
 tgtgtggtgg aacaagctac aaaaggagag aacaagatat gaagagtcaa tggttgatac 360  
 atgggcggag atgaaaagga tcatgaggaa gcggtatgtg ccggctagtt actcaaggga 420  
 cttgtaatca agc 433

<210> 14164  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14164

gaagctcctg ttntagctnt acccgattnt actctttcat ttgaagttga atgtgatgct 60  
 agtggagttg gcattggggc tgttttgata caaaacaaaa ggccatatagc ttatttctcg 120  
 gagaaattgg gaggagccag attgaactat tgcacctatg acaaagagtt ctatgccatt 180  
 gtgagagctc ttgatcattg gaatcattat ttgcgttcta atcactttat attgcattca 240  
 gatcatgagt cattgaagta tatcaatggg cagcagaagt tgagtccaac gcatgctaaa 300  
 tgggttgaat ntcttcaatc ttttaatttc tcttcaaaat acaaggatgg taagagtaat 360  
 gtggtggctg atgcactctc aaggaggtat gctttaatct caattcttga aactcgttac 420  
 ttggtttgag acttgaaaga tatataaaga aatgtggatt tggtgaaata ctcta 475

<210> 14165  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14165

ctaagctcca ccattttgta gggtttcagg gctttccatc agctctgttt aatctgccat 60  
 atactcatcc gatattagga ctcatgagct ttctcatatt tagcagctta ttggatttag 120

cttgagtggc ttccctttta gatacttggg tgttcccctt ttatcatcta gattaaatgt 180  
 atgccattat actcccttgc tttccaagat tactggcctg attcagtgat ggagcangaa 240  
 gtctttatct tatgcaggta agctagagtt gatcagagta gttattcaag gaattgtgaa 300  
 tttctggatg gggatttttc ctttgccctca atctgttctg gatcggatca acacttcatg 360  
 tcgtaattnt ctgtggggca aagcagatat tggcaaaaac aagcccttgg ttgcttggtc 420  
 agtagtttat tctccgacaa aagaat 446

<210> 14166  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14166

tggacagcat caaccttggc cattctaaaa tcttcctttt tcttatcagt gccctctnta 60  
 atgtatgcag ctggttcagt aatatttgag tccatgccat tgatgtttac cccaacatgg 120  
 tttccttcag tgtctgagtc atctttgtaa ccattcattg tgtcaaactc aactgcaaag 180  
 atgtggtttg actcattccc atcattgggtg gagttaacaa ggccaagata atggccagcc 240  
 tcagccccag gaaactgtgt tgaggggtgct atgggtgaagg caaggccaaa gccaccagaa 300  
 ccagaacttg tggacacaat tgagaaaaca aaattgggtgc tgaaggaata agcatatgg 360  
 tggtttgtgt tgtaagcat ttggaagggg gtggcataga atgcatggcc tacaatattg 420  
 gttgatctgt tggtgagttt aagtaaacgg ctggttttga tgatggaaga tccttcaaga 480  
 atgagttcac tg 492

<210> 14167  
 <211> 209  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14167

gagaatgtca tggatcactg tatataccan aaggtcagtg ggagtaagat ttgtttcctt 60  
 gcattatacg cagatgatat tctgcttgcg actaatgata agggatatgct gtatgaggtg 120  
 anacatattc tctcaaagaa ctttgatatg aaggatatgg gagagacatc ttatgtcata 180

agcatacaca tccatagaga aagatctcg

209

<210> 14168  
<211> 345  
<212> DNA  
<213> Glycine max

<400> 14168

tctccaacc acgagttgga gccatgcgta ggggtttttt gtgcttttct ccattctcaa 60  
tctttttgcg aagccccata aattgcgttt tcgttcatgc gacctccacc cacgagtttg 120  
gagacatgcg caatgattgc ttaatgcaat tctccattct caatcttttt tcggagcccc 180  
atgaattgcg ttttcgttca tgcgtcctcc acccagagt ttggagacat gcgtagtgat 240  
tgcttagtgc aattctccat tctcaacct ttttcggagc cccatgaatt gcgttttcgt 300  
tcatgcgtcc tccaaccacg agttggagcc atgcgataag gttgc 345

<210> 14169  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14169

tatgttgcaa aatntataat agacccctt attctatgtt tccaacaaca acaaaataat 60  
tatgatcttt caagcaacag atacaatcca ggtagagga atcatccaaa tctgagatgg 120  
acaagtcctc cacaacaaca gcagcttgtc cctccatttc tgaatgttgc tggcccaagc 180  
aagccatatg ttcctcccc aatgcagcag cagcaacaac acaaaggca acaagcaact 240  
gaggatcctc ctcaaccttc cttagaagag ttagtgagga aaatgaccat ccagaatatg 300  
caattttagc aagagacaag agccttcatt cagagtctga caaataagat ggggcagatg 360  
gctactcaga tgaaccaagc tcagtcccaa aattctgaca aattgccttc acaaactgtc 420  
cagaatccca aaaatgtgag 440

<210> 14170  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14170

cttgaggaaa ttcaaacgac aataccttgg gactcgtatg ttgtattgag tcacgnaata 60  
tctcgagacg ctggaaattg aataccgaag ctctgagcaa attcaaacga caataacttt 120  
ttactcggat gtgcgagtga gtcccgaat atgtcgagac actcgggaatt gaataccgaa 180  
gatatgagca aattcaatcg acaataactc tttactctga tgtcggattg agtcccgtaa 240  
tatatcgaga cgctcgaaat tgaataccga agctctgagc aaattcaaac gacaataact 300  
tttgactcgg atgtcggatt gagtcacgta atatctcgag acgctcgaaa ttgaatactg 360  
aagctgtgag catattcaaa cgacaataac tctgtactcg gatgtgcg 408

<210> 14171  
<211> 304  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14171

cacacttgag cttttagtct actatatcaa ataagtgtaa taagatattt gtcttttttt 60  
tctgaattct cacatcaatg caactatntg atgaattata agtaaaataa tctggaatta 120  
anaagtataa tagtttaa at cttntaaca atattctttt taatatttat aaaaatgaaa 180  
tanacata aaattttatt cctggttatn taataaataa caaagaataa taggaagatg 240  
ttataataaa ttagctcata atttattatt actcttaata gatgtggaga acattcaaaa 300  
ttat 304

<210> 14172  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14172

agcttgtag gttaaagtct cactgattgt tcgtgctgat gcaacaattg gtagcccg 60  
ctatacgaga catcttgcca acaaagtca ggtagcgat aactcgctg tgctttttct 120  
tccatgctat atgtagcaaa gtcattgatt cagtcaagtt tgatgagttg gaaaatgacg 180  
ccacaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240

ttcacttgat tatgcatctg gtcagagaaa tcaaagtgtg tggtcctgtt tatctacgat 300  
 ggatgtaccc ggctgagcaa tacatgaaga tcttaaaagg gtatacaaag aatctatatc 360  
 gtctagaagc atcatggcag aacaagctag acatgtatct tacgtg 406

<210> 14173  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14173

agctnngcaa acatagttga cacagaaggt ttttctctc tatatagaag catnaaatca 60  
 ttggcaaaag ccaaatgaga tagctgaata cctgcacagt ttatatataa atttaaaatt 120  
 ggcataatcc ttgaggctgc tcatatctct agaaaattac tccaaacaaa gcacaaacag 180  
 ataaggggag agaggatccc cttgtctaag accccgctgc cctttgaagt ggccataaat 240  
 ggatccattg actgccgcac taaaggaagt ggaagaaaca cattccatga tccaagtaca 300  
 gaactgggct gggaaaccaa tggacttaag catccaatcc aagaatttcc atgaaatgga 360  
 atcataagct ttatgcaagt caattttcag gaggcattct gaagaggatc ttttcattca 420  
 tatntacgca aaatatcttg aactaggaag atgtc 455

<210> 14174  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14174

agcttgttga gaaattgtac aaactttagg tatttgtttg gcatgctatt actagatttg 60  
 ccacttctta tctaacctta gaaaggctcc acaaagagaa aactaatatt ggaaagatgn 120  
 ttatttttta tgaatggatc ttaaacaagt tatctaagga gcttaagggg aaagaagctg 180  
 taaaggtagt gctcatgcct tctttttgga atagtgtggt ttacactctt aaagtcatgg 240  
 gtccacttgt caaagtgctt cgtcttgtgg atgatgaaag gaaaccatcc atgggttata 300  
 tctatgaagc aatggacaaa gcaaaagaaa taattaacaa gtctttcaac aaccacgaaa 360  
 gcaagtacaa agatgtgtnt gcaatcattg attaaagat 399

<210> 14175  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14175  
  
 agcttaattc ccaaaatcac atctacttga ttcttgttct tttatgncaa agnttctaaa 60  
 caatatggac ttgacatcat ttatgagggc atttacaatc tttattgntg ngncagccag 120  
 atacaaacat aaaatgacac atccattatc ataaaaaaat ttcacataca cacatttattc 180  
 actatcatta atttgaaaat catacgaaag aataacttga tcaaatttgt gtgtcattac 240  
 tttagggctt gtttcaaacc atataaagat ttaacaattt atttttcaag gaaaaacatt 300  
 ttcaaagaaa gtgacatctc tagatttcat aatagtacca ttagaaattt cagacatttc 360  
 taaattaaca actaagaatc tataagtagt attatgt 397

<210> 14176  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
  
 <400> 14176  
  
 gatagagcca aaccaatcc cctcattaa aaacaagctc ctttcttcct ctattgccct 60  
 tagatgaata caccattgtc tggttctcta tgcgggtctt aaccctctca tgcaactttt 120  
 ttacaaactc tgacctagat tccccttctt catgtataaa aagaagcgtc aagtgggacg 180  
 ggaatgaagt ctaggggtgt taggggattg aacctataga caacctcaaa aggggattac 240  
 ttagctgttc tatgaacccc cctgttgtaa gcaaatacta catgaggaag atactcatcc 300  
 caagacttat 310

<210> 14177  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14177  
  
 agcttctaga gggtgtgctt atctattcct tctctgacag tgcgtgggta agcccagnac 60

aggtagtttc aaagaaaaga ggaatgacag ttgtccaaaa caagaagaat gacttgatac 120  
 ccactcggac tgtcactggc tggatgaatat gcatcaacta ccgcatgctg aatgaagcca 180  
 caaggaaaga ccactttcct ctgcccttca tggatcagat gctggaaagg cttgtggggac 240  
 aggcatacta ttgtttcttg gatggatact catgttact aaattgtggt ggacccacg 300  
 gatcaagaga agatgacctt tacatgccct tttggtgtct ttgcctacag 350

<210> 14178  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 14178

gcagtaatat atacacaagt tactcgggaat aactaactta taacttacta acgtggagta 60  
 taagaactga aaagcaccgc gcatgagtgc tttggtgtat atatatgcaa gttgattagc 120  
 agaagttatt ggaagcaatt tgacaagctc gacaaggatc ttcttttgaa cgatatgaca 180  
 atcaattttg atatgttggg tcctttcatg acacacacga tttgtagcaa tatgtaaagt 240  
 tgactgggta tcatatgaca aaatagcagg ttgat 275

<210> 14179  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14179

catgcaagct tctcttctaa tatagaagca gctgatatac ttttttttat caggaatnga 60  
 gaagctttca ctgttaacat gataattctg tttttgcaca gcttttacag cagctactct 120  
 agctgcattg gctgctctat tagaagctgc tacagctctg ttcacccctt catctacctt 180  
 ggccatatca taggctttct ctgcggcttg tcttgcttcc ttttttttaa acaaataaac 240  
 acaattttat aatgaaaatt gactcataat gctgtaaaat atctaactgt ctgcaattct 300  
 tttcttctcc tccattacaa ggttgagcta attttatgca caaaagacaa gacatccaaa 360  
 ttctgcatgt agactgtatc cngacttcaa taaaatttgg ttt 403

<210> 14180



<211> 287  
 <212> DNA  
 <213> Glycine max

<400> 14180

gctccaaaat ttggctacac aaattcaatt tcaaattcaa gtgatatctg aatagaaatt 60  
 cagatttccc cccaattttg tgtgacactt aagctataaa tagaggccat gtgtgtgcat 120  
 ttattaaact ttgatcattt gagaaattac acttcaaagt tcagacctca tttgaggcac 180  
 acaatttggg gttctttctc tcctctgcc tccactcacc ttctcctacc ttcaagctct 240  
 tatccatggc tccttatgtt ggtgagcctt ctcttgactc atcctct 287

<210> 14181  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14181

agctcgccgc cacagagttt tccgactatg tcttttttgt ggtggaacaa gctacaaaag 60  
 gagagagcaa gatatgaaga gccaatgggt gatacatgga cggagatgaa aaagatcatg 120  
 aggaagcggg atgtgccggc tagttactca agggacttga aattcaagct ccaaaaacta 180  
 acccaaggca acaagggggg tgaggagtat ttcaaggaaa tggatgtgct catgattcaa 240  
 gcaaattatt aagaagatga ggaggtaact atggctcgat ttcttaatgg tttgactaat 300  
 gatatccgtg atattgttga gctgcaggag ttcgttgaaa tggattattt gcttcacaaa 360  
 gcaatccaag tggagcaaca attaaaaagg aaggagtggt ctaagaggag ttntaccaac 420  
 tttgattctt 430

<210> 14182  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14182

agctgtgaat gctctattca atgggaggga taagattatt ttttgactga ncaacacatg 60  
 cacagggggc aaggatgcat gggagatcct gaaaaccact catgaggga cctccaagt 120

aagatggcca gattgcaact attggctgca aaattcgaac atctgaagat gaaggaggaa 180  
gagtgtattc atgacttcca catgaacatt cttgaaattg ccaatgctcg cactgccttg 240  
agagaaaaga tgacagacga aaagctggtg agaaagatcc tcagatcctt gcctaagata 300  
ttagacatga aggtcactgc aatacaggag gccctataca tttgcccattg agaganatga 360  
actcattggt tcccttcaga cctttgagct atgactcttc gatgggacgt gaaagaaagc 420  
aagaatctgg cgctcg 436

<210> 14183  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 14183

agcttcacta tttcaccatc catatTTTTT ttctgtttat aatcaaacc ttcatgaatt 60  
tagcatatgt tggcatctac tctaacgcct cagaaaaagg aatgttatta tgcaattggt 120  
taaaagtatc tataaaacgc ttgtactatt tttccttacc tttctttgac agagcatgct 180  
gataacgatg atgctcaact ggtgaatggt ttactatagc tttaccatta ttagtggttt 240  
gttcatttga tttcttcttc tctttttcac ttaccactat ttcactgggc accactgcat 300  
catttttcta acgttcttct tcagctcctt ctttattctt tttctcatca ttaatt 356

<210> 14184  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14184

agcttattct gtgccatagt gctcntgttg gttatctcta ataggcttct ctctgtagga 60  
atatgagtct gatcatgtaa aatagcatga tcactagcag ccatattctc aataagctcc 120  
atagcttctt caggggtctt caatttaac ttcctccaa cagaagcacc caattactac 180  
ttggattgtg gtctcaaacc atctataaaa atatttagct gaattggctc agagaatcca 240  
tgagttggtg tttgtcgtag caagctacgg aatctttcaa gtgcttcaact caaagattca 300  
tctagaaatt gatggaatga ggagatagct gccttgctt cagctgtctt aaactcanga 360  
aaatatttct tcaaaaattt ctcaacaacc ttatcccaag tcttcaagct atttccctta 420

aacgaatgca gccacctatt

440

<210> 14185  
<211> 313  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14185

actatcacta gacctganga tatgcttgca gtgaacaacg tttgccaatt catggcaaat 60  
cctttggata cttcatgggc ttcattctaa gacagctatt tggggccttg tgatgcagac 120  
tggaatctg atatagatga cagaaggtct acttcatgcg cacccatcta ttttggctct 180  
aatctaatat cctgggtggc tggcaagcag caagttgttg ctatatcaac cacagaagca 240  
caatatataa cgttagctca gactactgca gacatattct ggattcacac cttattaact 300  
gaattaagag tct 313

<210> 14186  
<211> 239  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14186

tgaacctatg ctganatatt acaatagacc tcctaacctc atctcanaat attcccagca 60  
gagtcaatat gacctgtcca gcaacagata caaccctgga tggaggactc acnctaacct 120  
cagatgggcc agccctcagc aacaacaaca gcagcctgct ccttccttac aaaatgttgc 180  
tggccaagc agaccatata ttctccacc aatccaacaa caacaacaac cncagaaac 239

<210> 14187  
<211> 209  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14187

aacagatgtg acatgaacca ttgctgctat ngtaagaaat atactaatag ttatgggtatc 60  
cttatcgngt atgttgatga catgttgatn gcaggatcta gtatgacaga aaataacagg 120

ttgaagcaac agttggcaga aaactttgaa atgaaggatc ttggtccagc taaacanatc 180  
 cttggtatga gaattcttat aaacagatc 209

<210> 14188  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14188

ctctagcaag aggttttagtg aagatgtcag ctagttgatg cccactatca ataaactcaa 60  
 tgcagcaatc accctttgat atatgatctc caagacaatg atgtcttatac tctatatngt 120  
 tggttctaaa atgaatgatn aggattttag atagattgat agcacttggtg ttgtcacatt 180  
 tcaaggggaat gtgatcaagg attacttcan agtcttcaag ttgttgntc atccagagac 240  
 tttgagcaca acaactntta gctgcagtgt attatgcttc tgtagtggat agtgctacac 300

<210> 14189  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14189

gtgggtcatc attgccatac catacttgaa cctaccttca ttccaggaac ttgtgagtca 60  
 agctgaggaa gagtntggat atgatcattc catgggtggc ctcacaattc cttacagtga 120  
 agatgtttcc aacatataac tgatcacttg aatgtacaat acatctcgca ctgggtgcaga 180  
 cactgactta tttaatagac attttataca atacgcatct tctcaacct 229

<210> 14190  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14190

ggtgcgcggt agatgacgta tatctctgca cgtcacctga gttcagagtc agtgtgacag 60  
 anattgtggg gcggccgaca naagtgagtc tcttgctcct acgtatcctc aatttgtgat 120  
 gaggaactca nacttacgta gttcttgata actgtgagac taanatagtc tcggtgtttt 180

ttcactaaaa tgcgaacatg cattagtaaa gaaacaaaac ttccaactga tcaaagcaac 240  
 atatgctttt ttttat 256

<210> 14191  
 <211> 183  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14191

atgacactca canttttcgg attctgcaca gtttgtgaag gcaatttgtc aaaatnttgn 60  
 gactgagctn ggttcaactg agtagccatc tgccccatct gattggtcag actctgaatg 120  
 tangctcttg tctcttgctg aaatngcata ttctggatgg tcattngcct cactaactct 180  
 tct 183

<210> 14192  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14192

tctgcacctg tngcaagagt ctgtggtcta tgttcttcta gagatcacca tacagatctc 60  
 tgtccttctt tgcagcaatc tggagtcaat gagcaatctg aagcttatgc tgcanaaatt 120  
 ataatagacc ctctcaacag caaaaccaac aacatcagaa taattatgat ctttcaagca 180  
 acagatacaa tccaggttgg aggaatcatn caaatctgag ataggcaagt nctctacaac 240  
 aacaac 246

<210> 14193  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<400> 14193

gctgcagcac tctaaggatc ccgtaccgag ctcgaatgc ctatagttgt ctatacattt 60  
 actggcgctg ttacaacgct gactggaaaa cctgcgtacc cactaatgc ttgcacacat 120  
 ccctttccca gctggcgaat agcgaaaggc ccgccatcg ccttccacag ttgccacctg 180

atgggaatgg gcctgatgcg gatttctctt acctctggcg gatttacacc gatatggtgc 240  
ctctcagaca atctgtctga tg 262

<210> 14194  
<211> 235  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14194

acgggactct atcggacatc cgagtaaaaa gttattgtag tttgaattg ctcanggctt 60  
cagtattcca tttcagcgt ctcgatatat tacgggactc aatcggacat ccgagtaaaa 120  
agttattggt gtttgaatat gtcagagct tccgcattcc atttcgagca tctcgattta 180  
ttactggact caatcagaca tcccagttaa aagttattgt ggtttgaatt tgctc 235

<210> 14195  
<211> 356  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14195

tcactcggaa gtcctattga gtcccgaata tatcgatatg ctngaaatt aaaaccgaag 60  
cccctagcaa attcgaacga caataacttt tcactcagaa gtccaattga gtcccgcaat 120  
atatcgagac gtcgaaatt taaaaccgaa gttttagca aaatcgaacg acaataacaa 180  
ttcactcgga agtccgattg agtcccgtaa tatatcgaca tgctcgaaat ttaaaaccga 240  
agtcctagc aaattcgaac gacaataact tttcactcgg aagtcccgat gagtcccgcc 300  
atatatcgag acgctcgaaa tttaaaaccg aagctcgtcg aanattaataa gacaat 356

<210> 14196  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 14196

atggcgtgag atatactgtg aggaaatgga tgcatttggt tatgaaagga attacactcg 60  
cgcaagaaat aatttggtt cttctttcag tggcaaagca aatccgttga ttatactccc 120

caaaatcttct aatagctctg caatcccatt atgtttctca gtttcaaaaa tgaactgata 180  
 aaatatattg gtgattgctt tccaatgaa gggtcggtgc accatatatt tcccatatat 240  
 acgatgaaga actggcttca agtaatcccg ctccctgcga tcttctgaat cacataggtc 300  
 taatagtttg agaacaaatg aatgatcgac atatcttttt gctaattttg catcagtcctc 360  
 aggtgatgcg acaaacctta taaggagttc atatacaatt tgaaag 406

<210> 14197  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> .14197

agatgtgaca tggaccattg cagctatgtt aagaaatata ctaatagtta tgttatcctc 60  
 gtcgtgtatg ttgatgacat gttgattgca tgatctagta tggcagaaat taacaggtnt 120  
 gaacagttgt tggcagaaaa cttnгааatg aaggaatctg gccagctaaa catatctttg 180  
 gtataagaat tcttagaaat agatcagaag gaaatttgaa gttgtgtcac gagaaatata 240

<210> 14198  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14198

ttcacttata taataatatg atatgtaaga taataaatga ttttaatatg tatagagtta 60  
 agaaattgaa attcaaaatt taaaattgtg ttgacattaa taatcaaadc aaatctgaat 120  
 caagtaatta atataaataa taaaaaatca aattatgtca taatgagaga tataacaatg 180  
 ataaaaattt aaatttaaaa ttaaaaagtt taccatacat tcataatcat aaaatcaaat 240  
 ntgaattaag aattntaata taaaaatcaa taaaaatgtg ttctaataca aattttaaatt 300  
 gtagtaattt attntagaac tggtaatgaa taattttaaatt ttttaaattg tattttaatta 360  
 tcagttaaatt attgaatggg aattaattnt gagagactta tatatnntat taaatatata 420  
 atgtaaaaana atatggaatg attatatata tatatatata tatatatat 469

<210> 14199  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14199

gtggactcta acatngtta taaaattact ctggttgctg actaanaaan agatatttat 60  
 tattagagaa aggattatac tttttttata attcgatata gaatgtaatt nttatttatt 120  
 caatcattaa attatatcta tatactatcg agatcgtttg catcanattt tgttaaaatt 180  
 gaacgacaat aaataggtaa tcaaatgatt cacatttagt atatttttaa tttttttatt 240  
 acgtcgattt taatttatat gaacaaaata tcaaatgatt ctgcattgat ataaaattnt 300  
 gcatgtgtaa tctatgtgaa agagactttc aatccaacat cgaattntaa tgaaacatta 360  
 tcccgttgaa agttatagat ggggtgtaata attatcanag ttactctagt gtaatttga 419

<210> 14200  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 14200

taaagtctca cgatcgtcac gtgctcatgc aacttttggt agtcgtggct atatgagaca 60  
 tcttgccgaa caaagtcagg ttcacgataa ctgcctgtg ctctttcttc catgctatat 120  
 gtagcaaagt gattgatcca gtaatgtttg atgagttgga aaatgaggac gcaattatac 180  
 tgtgccagct ggagatgtat tttccccctg ctttctttga catcatgatt cactcgattg 240  
 tgcactctgt cagagaaatc aaatgttgtg gtcctgttta tctactgtgg atgtacctgg 300  
 ttgagcgata catgaagatc ttaaaagggt atacaaagaa tctatatcgt ccgaaagcat 360  
 ctattgttga gaggtacat 379

<210> 14201  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14201

ctacttcaca tcgatttatt tggtcctctc agaactatga gtgtaggtgg aaattactat 60



ggcttagtaa tagtggatga ttactcaagg ttcactcgga ctntgtttt gagaaccaa 120  
 aaaagaagct ctgatgctt ttgcgaaact tgccatgggtg attcaaatg aanaaggtct 180  
 caacattgct tcaattagaa gtgatcatgg aagtgaattt canaatgatt cttttgaaaa 240  
 cttttgtgaa gaaaatggaa ttaccacan attttatgcc ccaagaacac ctcaatagaa 300  
 tgggtgtgtg gaaaggaaaa atagatccct tatagaaggt gcaagaacct ttctaatga 360  
 aacaaggtta cctaagtact ttggggctga tggtgacata ctaattgtta cacctgatag 420  
 agtaata 427

<210> 14202  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14202

gttcacgata actcgctgt gcttttactt ccatgctata tgtagcaaag tgaatgatcc 60  
 agtaatgttt gatgagttgg aaaatgaggc cgcaattata ctgtgccagt tggagatgta 120  
 ttttccccct gctttctttg acatcatgat tcaactgaatt gtgcatctgg tcagagaaat 180  
 caaatgctgt ggtcctgttt atctacgggtg gatgtaccg gttgagcgt acatgaagat 240  
 cttnaaaggg tatacaaaga atctatatca tctggaagca tct 283

<210> 14203  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14203

acatgtggcc tcagatatct taagaagggg ggttgaatta agatattaca aactgtttcc 60  
 ccaattaaaa attctacttt gattctaatt caagttcaa gttcccttaa agatgaattt 120  
 ctaaatgatg attcaaatta aacaatctga atgtaactgt taagcaacaa taaataaaaag 180  
 agtttaaggg aagagaaagt gtaaacacag tttttatata ggttcggcaa agtccgttgc 240  
 ctacgtccga tccccagaa agccgcttgg gagttccact atctcgtaat cctttacacc 300  
 ttctgaaaca cacaaggaca tcccttctt tgtgttcaga tgctttacaa caagagactc 360

tcagtctctt agcccttnga tcagaaagag aggaagaaag aaatgatctt cttgaagaga 420  
cagatgttac aatgaagtgc tcaattcctt attgaatgtc acaagt 466

<210> 14204  
<211> 437  
<212> DNA  
<213> Glycine max

<400> 14204

tctgtaatcg attatatgct atctattctt gtgtaatcga ttatcagaac actaaatagg 60  
gcttttcttc aacaaaatat ctatgtctat gctaaaaaca tctaactata gcagtcacatca 120  
atactgatac tcatttaatt caatcaaaca agaatcaatc acacaataac acaccaatca 180  
aacacaatta aaatcttata atcaaataca atcaatcaat cattaaccat aaatatttca 240  
atcaaccaat caatccttat ttatccaaat cactaatatc taagaggcct aattctcttc 300  
taatggaaaa gaatgtttct ttggtgagag ggtttgtgaa gatatacaaca agttgattct 360  
ttgtatcaac aaattctagc acataatctc ccttcagaac atgatctctt agaaaatggg 420  
gtctaatttc tatatgc 437

<210> 14205  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14205

cacaacagtg agtgcagcta taaatgcagc tccaaagagt agtagtgga ggtatgtgat 60  
atatgtgaag ggtggcgtgt acgatgaaca agttgaggtg aaagcaaaga atataatgtt 120  
ggttggagat ggtattggaa agactataat cacaggtagc ataagtgttg gaggaggcac 180  
cacaaccttc cggtcagcca ctggttggtg agcttttatt attttttatt attgttaatt 240  
aattctaate atttcttaag tcttatgttt gactgtgtta cataanaata atttaaagaa 300  
aattaccaac aattatttaa attgtctata agaatacagaa ttcataataa aattgtaaaa 360  
aatgattat ggtatta 377

<210> 14206

<211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14206

attgtcgttc atgcacccctc atccattgag tacggtgccc catgaattga ttgcctagcg 60  
 ctgttcacgc atcctccatc atcaaactctt attcggagcc ccatgaattg attgtcgttc 120  
 atgcacccctc caccattcag ttcagagcct tacgaattga ctgccaaagct ctgttcacga 180  
 atcctctatc atcaaactctt attcgaagcc ccatgaattg attgccattc atgcaacctc 240  
 caccattgag tccggagccn cacgaattga ttgcctagtg atgttcgtgc atcctgcacc 300  
 atcttattcg gagcccatg aattgattgt cgttcacga tctccacca ttgagtcagg 360  
 agccttacga attgactgcc aagctctttt catgcctnct ctatca 406

<210> 14207  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14207

atcctgatga ggatgttcca tatgtttctca tgactggact aatacattnng ctgtccaagt 60  
 ttcatgggtct tgcaggtgaa gatcctcata agcatcttaa ggagttccat attgtctgtc 120  
 ccaccatgaa acccctgat gtccaggaag atcatatctt tctaaaagct tttcctcatt 180  
 ctctggaggg agtggcgaaa gaatggttgt actaccttgc tcccagggtcc attaccagct 240  
 gggatgacct taagaggggtg ttcttgagga aattcttccc tgcacttagg accactgcca 300  
 ttagaaaaga catttttaggc attaggcaac ttagtgagga aagcttgtat gactactggg 360  
 aaagattcaa gaaaatgtgt tgcagttgtc cttaccacca gattnttttag caactccttc 420  
 tgcaatattt ctatgagggga cttagcaaca ttggagaaga gtatga 466

<210> 14208  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14208

agaagatgct atctgagctt acatgtcaat tcttacgtaa cattaattaa gggttttaata 60  
cacgaataaaa aaaagagaaa tactatgtac aatcaataat ttctttttga aagagtgtg 120  
gtgtaattta ttattttatt aaatctccta tctttttcag taaatagaca catattacat 180  
tntatccata attttttttag aacttactta atatgtatta ctttaacata tcacaagaga 240  
taaaatctta cataaatata tgtatataaa ttatagagat aaatgggtat aaaaagtat 300  
aataatataa cttacagaac atactttatt ataatgaata taatatgggtg ctatttaagt 360  
cttctttaag aattatatga cgaaatttat aaca 394

<210> 14209  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14209

tatggtcctt ttcaggactt agaatgcttt ggcaaagtgg cctatcacct gcaattacct 60  
gaagaagctt gagtccactc tattttccac tgctccttgc ttaaaccatt cagaggttcc 120  
ctggaatagt cggaaatggc tccattacca caacaattca tcaattatca acccttagtt 180  
tctcctctgg ctatcctcaa ttatcgtcgg gtacctggtg cacctaattgc tccatgggag 240  
gtgttagtcc aatggcaggg tctgtctcca gatgagacct cttgngaaga tnggtcccaa 300  
ctatgccana aatatcacct tgaggacaag gtgatcttan tagggctggg gaatgatatg 360  
ataccagaag cagataacat agcattcgaa ataga 395

<210> 14210  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14210

atgccgtacc aagaccttgg agcctacttt aagccataca aggactntnt caaccgatat 60  
acattctctt cctgtccacg aactacaaat ccttcaggct gctctacaaa aatttcttct 120  
tccaagtgtc cattcaagaa ggttgattta acatccatgt gatgtataat ccaaccttta 180  
tgtgcagcaa gagctaacia cagccttatg gtatccaacc tggcaactgg aaaaaagt 240

tttgagaagt ctaccccgaa catatgcaca tatcccttca caacaagcct tgccttatgt 300  
 ttgtttatag aaccatcaac attagctnt gttctataaa cccatttcac tccaatgaca 360  
 ttnttatctn taggtttctc cgtgagctcc catgtttgat gttnttcaat catatcaagc 420  
 tcctccttca ttgcactta 439

<210> 14211  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14211

gctatgctgt anacatntat aatagaactc ttcagtctca aaaccaacaa caacagaata 60  
 attatgatcc ttcaagcaat agatacaatc catgttagag gaatcatcca aaactgagat 120  
 ggacaagtcc tacacaacaa caatagtcta tcctccttt ctagaatgtt gctgggtccaa 180  
 gcaagacata tgctcctcct ccaatgcagc aacagtagca acagtcacaa caaagacaac 240  
 catcaattga ggctcctcct caaccttcct tagaagagtt agtgaggcaa atgaccatcc 300  
 aaaatatgca atntcaacaa gagacaagag cttccattta gagtctgac 349

<210> 14212  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14212

tcataactca gctggccata tatcagaaat tctgctgac accatacaga tctctgtect 60  
 tctttgcagc tatctggagt caatgagcaa cttgaagccc atgctgcata catttataat 120  
 agactccctc agcaacaaaa ccaacaacaa cagaataatt atgatctttc aaacaataga 180  
 tacaatccag gttggaggaa tcatccaaat ctgagatggg aaaatcctcc acaacaacaa 240  
 cagcagcaac aacaacagtc tgtcccttcc ttccagaatg ggtgtgggtcc caagcaggcc 300  
 atatgtcctn nctcaatgca gcagcaatag caacaacaaa gacaaca 347

<210> 14213  
 <211> 321

<212> DNA  
<213> Glycine max

<400> 14213

gaaccttcac cgcacgaaga cactgacaac aacttatctt ctccttcttg gacaaagcat 60  
ggctggcgtg agggcaatgt atatcatatt gccatcacac cgtggatgca actgtgatca 120  
tatacccaca tcaactagat cttgacgagt attcacgcca tccttcggtt tgccttgaat 180  
gttaaggatc gtccaatca cactatcaca aacatttttc tccacatgca taacatcaat 240  
acaatgtcta acgtcaagat cacaccagtt cggatgatca gagaaaatgg acctcttctt 300  
ctatatgcaa catctgactt t 321

<210> 14214  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14214

gcttccatca cttttgctcc tacgtatcct cattntgtga tgaggaactc agacctacgt 60  
agttcttgat aactgtgaga ctaaaaatag tctcgggtgtt ttcttcacca aaatgtgaac 120  
atgcttttagt aaagagacaa aacttccaac tgatcagagc aacatatgct ttttggatga 180  
aaaacaatgt gtctattggg gaaggagagt atgctaataa aattntctca taaccgtaaa 240  
tgagattttg gatgttagca tttcgtttct aaatgatcca tttgaggaag cactgngttc 300  
aacaaaaata gaagataatc actcaaagtg tatcaatctc acacatgtat atgttttate 360  
ctaattccga accatagata tgtcatgact tgatntgca natcatttnc tatcaaatca 420  
aagaatacat gcatgatcat ggatc 445

<210> 14215  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14215

gcagctgcag ttttaatat tacttaatta ctctcaatnn tagntnctct acttataatt 60  
attcgcattn tatcttcaca taatttttaa attatntaaa ctaaatact ntaagtnta 120

ttcaaaaact aatagaaatg tagtgaaggt atggcattat taacttatag taatatatat 180  
aatgaacaa aaaatgtata atatgtaatg aatTTTTTat aatTTTattt aaatatttgt 240  
gcggacctat acaaatttat aatatatcac acctctgtta tattattatt cttntattt 300  
ggatttgaat ntaaacaaca aactatntgt gttctttatc ataaacatct attntttata 360  
agtaacatgc tcaaatggaa a 381

<210> 14216  
<211> 234  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14216

gaaagtccga ttcagctgca taatatatca agacactcga nattgaatgc cggaagatga 60  
tgagaaattt anattgggtca taacttatca cacagatgtc tgattctgcc cataatatat 120  
cgagatgctc gaaattaacc atggagctct cgagaaatca aatgggcata cttttcaatt 180  
ggatgcccgga tccatgcgca tctttatcga gactctcgaa attgacaacg aagc 234

<210> 14217  
<211> 281  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 14217

cggatgcctg antgagtccc gagatataac gagacactcg aaattgaatg ttgaacctct 60  
gagcanattc aaacgacaat aactctcttc tcagatgttt gagtgagact cgtaatatat 120  
cgagacgctc gaaattgaat gtttaagctt tgagctaatt canacgacaa taacttttta 180  
ctcggatgtc tgattgaggc ccgaaaatat cgagacgctc gaaattgaat gttgaagctc 240  
tgagccaatt caaacgacaa tatcttttta ctcggatgtc t 281

<210> 14218  
<211> 318  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<400> 14218

ttaagtcacc tgctgctgca gctatatgca tagaaatatt atcatatatt gttcacaana 60  
aagacattaa aataatgctc ttaagacaat tatcaatgag aatatattct caatatatca 120  
ctcatattat aattagatat tgtattttaag tcttatcata aatataccac ttaaatttat 180  
caatgttgat tgattaattt aatttatagt accatcagat taatcaataa atatatcaaa 240  
tttaagaacg attccatgag aagaagctcg tgtccaatgg atctagctca gttgataata 300  
cacactatgt gctgagtt 318

<210> 14219

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14219

agcttggtgn ggccaaaaat gaccagcctc tcctattagc ctcaactgctg agaccctctt 60  
tgctacatct cagattctca aaaacctcct caatgggaat gttctcctgc attaaaaaaa 120  
aaaaaaaaacc atcattgaaa ccacaaaagg cacagcaagg aagaggctta tagagtgggt 180  
cagatctggt accaaaatct acagtttctt tcaacacagc ctccaatact tgagacttgt 240  
cacccatgct ggaccacttc ctctacctct ctctcccaac tgtgtttact aaaacaaata 300  
taataaaaac agctatgata ttaacacaat gcgtgcacac cacatac 347

<210> 14220

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14220

agcttggtcan aaaggaagca agttaaatc tcctttcaaa gataaaacgt tgtttccact 60  
tcaaaactcc ttgaactact tcacatattt atttgggtccc tcaagaacta tgagtttagg 120  
tggaattac tatggcttat taatagtaga tgattactca aggttcactt ggactttggt 180  
tttgaaaacc aaaaatgaag cttttgatgc ttttcacana cttgtcaagg tgattcaaaa 240  
taaaaaaagg tttaacatt gtttcaatta gaagtgatca tggagatgaa tttcaaaata 300